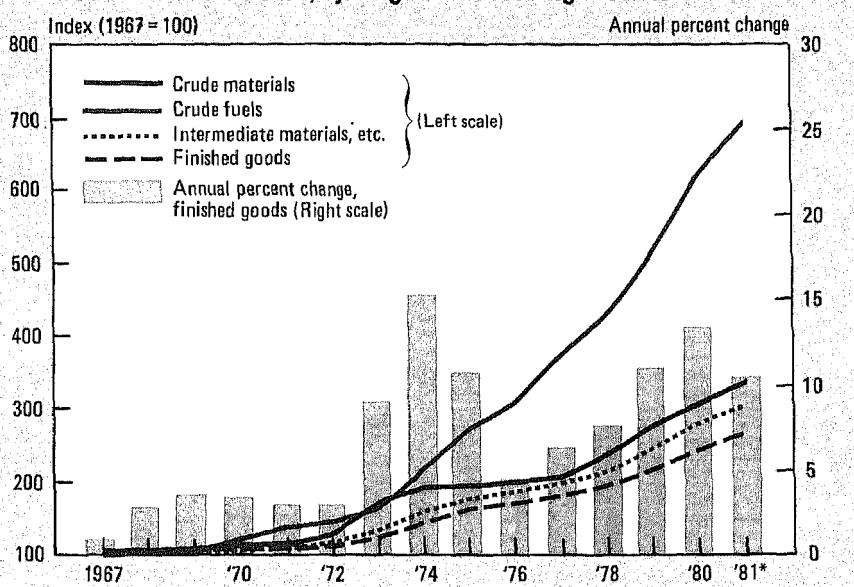


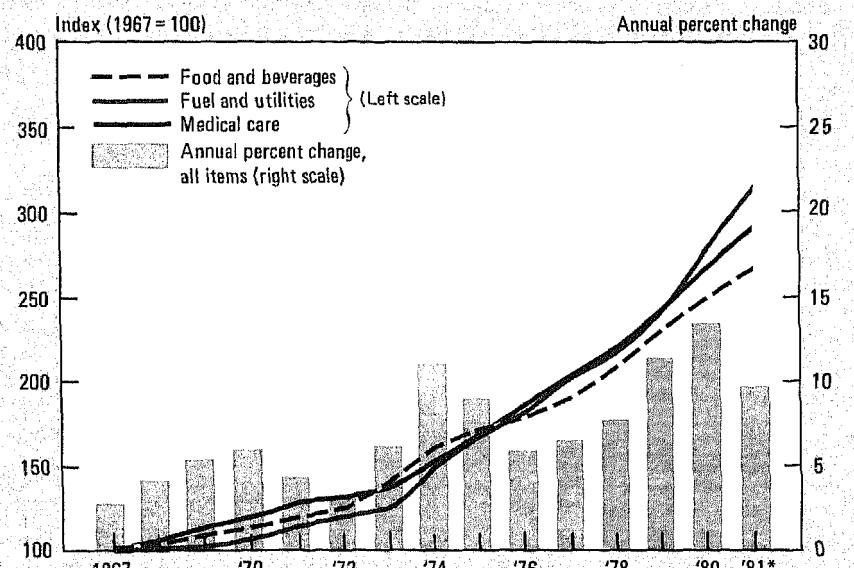
Figure 15.1

**Producer Price Indexes, by Stage of Processing: 1967 to 1981**

\*Annual rate for five months ending May. For 1981, percent change, May 1980-May 1981.

Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 767 and 772.

Figure 15.2

**Consumer Price Indexes: 1967 to 1981**

\*Annual rate for five months ending May. For 1981, percent change May 1980-May 1981.

Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 767 and 781.



## Section 15

# Prices

This section presents indexes of producer and consumer prices, actual prices for selected commodities, and budgets for urban families and retired couples. The primary sources of these data are monthly publications of the Department of Labor, Bureau of Labor Statistics, which include: *Monthly Labor Review*; *Consumer Price Index, Detailed Report*; *Consumer Prices: Energy and Food and Producer Prices and Price Indexes*. The Bureau of Economic Analysis of the Department of Commerce is the source for the gross national product (GNP) implicit price deflator figures; see table 769. The Department of Agriculture's Economic Research Service (ERS) produces indexes of prices received and prices paid by farmers; see section 24. The single year 1967 was the standard reference base period for most general-purpose index numbers prepared by Federal agencies; however, this standard reference base period is being changed to the year 1977 in early 1982.

The Bureau of Labor Statistics (BLS) prepares monthly indexes of producer prices for a large selection of commodities, and monthly indexes of consumer prices for both commodities and services.

**Producer price index.**—Formerly known as the wholesale price index, this index, dating from 1890, is the oldest continuous statistical series published by the BLS. It is designed to measure average changes in prices of all commodities, at all stages of processing, produced or imported for sale in primary markets in the U.S.

The index has undergone several revisions (see *Monthly Labor Review*, February 1962). It is now based on approximately 3,000 commodity price series instead of the approximately 1,900 included in the 1947-1960 period and the 900 included for the period prior to 1947. Prices used in constructing the index are collected from sellers, if possible, and generally apply to the first significant large-volume commercial transaction for each commodity—i.e., the manufacturer's or other producer's selling price, the importer's selling price, or the selling price on an organized exchange or at a central market.

The weights used in the index represent the total net selling value of commodities produced or processed in this country, or imported. Values are f.o.b. production point and are exclusive of excise taxes, interplant transfers, military products, and goods sold directly at retail from producing establishments. Beginning in January 1976, the weights are values of net shipments of commodities as derived from the industrial censuses of 1972 and other data. For January 1967-December 1975, weights were based on 1963 shipment values.

**Implicit price deflators.**—Several measures of the change in prices paid by U.S. consumers are available. Each of them is constructed differently and behaves differently. Three such measures are: the implicit price deflator for personal consumption expenditures (PCE) and the chain price index for PCE, prepared by Bureau of Economic Analysis (BEA), and the Consumer Price Index, prepared by BLS.

Many of the differences are traceable to the fact that the population groups covered by the BEA measures are "persons" as defined in the national income and product accounts, i.e., mainly individuals and nonprofit institutions and individuals serving them. The CPI covers all urban consumers. Weights also differ in each of the three measures. In terms of relative importance, approximately 70 percent of the expenditure components used in constructing the BEA and the CPI are comparable. CPI measures are also used in constructing most of the BEA measures for noncomparable PCE components. All together, almost 95 percent of the weight of the price indexes used in the construction of the BEA measures is taken from the CPI. See U.S. Bureau of Economic Analysis, *Survey of Current Business*, March 1978 for a detailed reconciliation.

**Consumer price indexes (CPI).**—The CPI is a measure of the average change in prices over time in a fixed market basket of goods and services purchased by urban wage earners and clerical workers and by all urban consumers.

In 1919, BLS began to publish complete indexes at semiannual intervals, using a weighting structure based on data collected in the expenditure survey of wage-earner and clerical-worker families in 1917-19 (BLS Bulletin 357, 1924). The first major revision of the CPI occurred in 1940, with subsequent revisions in 1953, 1964, and 1978.

The current revision, initially issued with release of the January 1978 data, is based on updated "market baskets" of goods and services and revised expenditure weights derived from a 1972-1973 Consumer Expenditure Survey.

Effective with the January 1978 index, BLS began publishing CPI's for two population groups: (1) a new CPI for All Urban Consumers (CPI-U) which covers approximately 80 percent of the total noninstitutional civilian population; and (2) a revised CPI for Urban Wage Earners and Clerical Workers (CPI-W) which represents about half the population covered by CPI-U. The CPI-U includes in addition to wage earners and clerical workers, groups which historically have been excluded from CPI coverage, such as professional, managerial, and technical workers, the self-employed, short-term workers, the unemployed, and retirees and others not in the labor force.

The CPI is based on prices of food, clothing, shelter, and fuels, transportation fares, charges for doctors' and dentists' services, drugs, and other goods and services purchased for day-to-day living. Prices are collected in 85 areas across the country from over 18,000 tenants, 18,000 housing units for property taxes, and about 24,000 establishments. Area selection was based on the 1970 census. All taxes directly associated with the purchase and use of items are included in the index. Prices of food, fuels, and a few other items are obtained every month in all 85 locations. Prices of most other commodities and services are collected monthly in the five largest geographic areas and every other month in other areas.

In calculating the index, each item is assigned a weight to account for its relative importance in consumers' budgets. Price changes for the various items in each location are then averaged. Local data are then combined to obtain a U.S. city average. Separate indexes are also published for 28 local areas, usually consisting of the Standard Metropolitan Statistical Area (SMSA); see text, page 2. Area definitions are those established by the Office of Management and Budget in 1973. Definitions do not include revisions made since 1973. Area indexes do not measure differences in the level of prices among cities, they only measure the average change in prices for each area since the base period. For further detail regarding the CPI, see *Consumer Price Index; Concepts and Content Over the Years*, BLS report number 517.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability pertaining to the producer price index and the CPI, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

#### NO. 765. PURCHASING POWER OF THE DOLLAR: 1940 TO 1981

[1967=\$1.00. Producer prices prior to 1961, and consumer prices prior to 1964, exclude Alaska and Hawaii. For 1940 and 1945, producer prices based on all commodities index; subsequent years based on finished goods index. Obtained by dividing the average price index for the 1967 base period (100.0) by the price index for a given period and expressing the result in dollars and cents. Annual figures are based on average of monthly data]

YEAR	ANNUAL AVERAGE AS MEASURED BY—		YEAR	ANNUAL AVERAGE AS MEASURED BY—		YEAR	ANNUAL AVERAGE AS MEASURED BY—	
	Producer prices	Consumer prices		Producer prices	Consumer prices		Producer prices	Consumer prices
1940.....	\$2,469	\$2,381	1958.....	\$1,073	\$1,155	1970.....	\$,907	\$,860
1945.....	1,832	1,855	1959.....	1,075	1,145	1971.....	,880	,824
1948.....	1,252	1,387	1960.....	1,067	1,127	1972.....	,853	,799
1949.....	1,289	1,401	1961.....	1,067	1,116	1973.....	,782	,752
1950.....	1,266	1,387	1962.....	1,064	1,104	1974.....	,678	,678
1951.....	1,156	1,285	1963.....	1,067	1,081	1975.....	,612	,621
1952.....	1,163	1,258	1964.....	1,063	1,076	1976.....	,586	,587
1953.....	1,175	1,248	1965.....	1,045	1,058	1977.....	,550	,551
1954.....	1,172	1,242	1966.....	1,012	1,029	1978.....	,510	,512
1955.....	1,170	1,247	1967.....	1,000	1,000	1979.....	,459	,461
1956.....	1,198	1,229	1968.....	,972	,960	1980.....	,405	,406
1957.....	1,098	1,186	1969.....	,938	,911	1981, May.....	,372	,372

Source: U.S. Bureau of Labor Statistics. Monthly data in U.S. Bureau of Economic Analysis, *Survey of Current Business*.

## NO. 766. ANNUAL PERCENT CHANGE IN SUMMARY PRICE INDEXES: 1970 TO 1981

(Change based on annual averages of monthly or quarterly indexes)

ITEM	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
All items, CPI <sup>1</sup>	5.9	4.3	3.3	6.2	11.0	9.1	5.8	6.5	7.7	11.3	13.5	<sup>2</sup> 9.8
Finished goods, PPI <sup>1</sup>	3.5	3.1	3.1	9.1	15.3	10.8	4.2	6.0	7.8	10.9	13.5	<sup>2</sup> 10.5
GNP <sup>3</sup> price deflators	5.4	5.0	4.2	5.7	8.7	9.3	5.2	5.8	7.3	8.5	9.0	<sup>4</sup> 8.9
PCE <sup>4</sup> price deflators	4.6	4.3	3.7	5.7	10.0	7.7	5.1	6.0	6.9	8.9	10.2	<sup>4</sup> 8.2

<sup>1</sup> CPI=Consumer price index; PPI=Producer price index; see text pp. 457 and 458.<sup>2</sup> Change from May 1980-May 1981.<sup>3</sup> GNP=Gross national product; PCE=Personal consumption expenditures; see table 769.

Source: See source for table 769.

<sup>4</sup> Change from 2d qtr. 1980-2d qtr. 1981.

## NO. 767. ANNUAL PERCENT CHANGE IN SELECTED PRICE INDEXES: 1960 TO 1981

(Yearly averages. Minus sign (–) denotes decrease. GNP=Gross national product; see text, p. 417)

YEAR OR PERIOD	CONSUMER PRICES						PRODUCER PRICES				GNP DEFLATOR <sup>2</sup>			
	All items	Food	Fuel oil and coal <sup>1</sup>	Electricity	Rent	Services	Finished goods		Intermediate goods		Crude goods			
							Total	Consumer foods	Total	Fuel	Total	Fuel		
1960 <sup>3</sup>	1.8	1.0	–.7	1.3	1.4	3.3	.8	2.2	–	–2.4	1.0	1.6	1.4	1.5
1965 <sup>4</sup>	1.7	2.2	2.0	–.5	1.0	2.2	1.7	3.8	1.4	5.1	.8	2.1	1.9	1.6
1967	2.9	.9	3.1	.9	1.8	4.4	1.2	–1.6	–.8	–5.4	3.8	3.0	2.8	3.2
1968	4.2	3.6	3.1	.9	2.4	5.2	2.9	3.7	2.3	1.6	2.3	4.4	3.8	3.8
1969	5.4	5.1	2.4	1.9	3.2	6.9	3.6	6.1	3.4	6.7	4.0	5.1	4.7	4.7
1970	5.9	5.5	4.3	3.3	4.2	8.1	3.5	3.2	3.9	3.6	14.9	5.4	4.5	4.7
1971	4.3	3.0	6.7	6.6	4.6	5.6	3.1	1.6	3.8	2.5	13.4	5.0	4.4	4.5
1972	3.3	4.3	.9	5.0	3.5	3.8	3.1	5.6	4.0	10.9	7.0	4.2	3.5	3.0
1973	6.2	14.5	14.8	5.0	4.3	4.4	9.1	20.3	10.9	36.4	10.6	5.7	5.4	3.8
1974	11.0	14.4	57.8	18.1	5.1	9.3	15.3	14.0	23.8	12.7	33.4	8.7	9.1	9.7
1975	9.1	8.5	9.6	13.2	5.1	9.5	10.8	8.4	10.5	–.4	23.7	9.3	9.4	9.9
1976	5.8	3.1	6.6	6.3	5.4	8.3	4.4	–3	5.1	2.9	12.4	5.2	4.9	5.0
1977	6.5	6.3	13.0	6.6	6.1	7.7	6.5	5.3	6.6	3.2	21.9	5.8	5.6	5.9
1978	7.7	10.0	5.3	7.4	6.8	8.5	7.8	9.1	7.0	12.0	14.7	7.3	7.4	7.0
1979	11.3	10.9	35.1	7.7	7.3	11.0	11.1	9.2	12.8	17.0	18.9	8.5	8.7	8.5
1980	13.5	8.6	37.9	15.7	8.9	15.4	13.5	5.9	15.3	11.0	21.2	8.0	8.1	9.6
1981 <sup>5</sup>	9.8	8.8	23.3	13.6	9.0	11.3	10.5	8.7	10.7	15.2	19.2	8.9	8.8	8.7
1960–1965 <sup>6</sup>	1.3	1.4	1.2	–.1	1.1	2.0	.4	.7	.2	.5	.2	1.6	1.2	1.2
1965–1970 <sup>6</sup>	4.2	4.0	3.1	1.4	2.6	5.7	2.9	3.5	2.6	2.5	5.6	4.2	3.8	3.8
1970–1975 <sup>6</sup>	6.7	8.8	16.4	9.5	4.5	6.5	8.2	9.8	10.4	11.9	17.2	6.6	6.3	6.2
1975–1980 <sup>6</sup>	8.9	7.7	18.8	8.7	6.9	10.2	8.6	5.8	9.3	9.1	17.8	7.2	7.1	7.2

– Represents zero.

<sup>1</sup> Includes bottled gas.<sup>2</sup> Source: See source for table 769.<sup>3</sup> Base year for percent change is 1959.<sup>4</sup> Base year for percent change is 1964.<sup>5</sup> Change from May 1980-May 1981, except GNP deflator, 2d qtr. 1980 to 2d qtr. 1981.<sup>6</sup> Average annual percent change. For explanation of average annual percent change, see Guide to Tabular Presentation.Source of tables 766 and 767: Except as noted, U.S. Bureau of Labor Statistics, *Monthly Labor Review*.

## NO. 768. ANNUAL PERCENT CHANGE IN WAGE RATES, COSTS, PRODUCTIVITY, AND FEDERAL BUDGET: 1970 TO 1981

ITEM	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Wage rates, private nonfarm:												
Average hourly earnings	6.3	6.8	7.2	6.5	7.6	6.8	7.3	8.0	8.4	8.3	8.1	<sup>1</sup> 8.8
Adjusted hourly earnings index	6.6	6.7	6.6	6.4	9.1	7.5	7.3	7.4	8.3	8.0	9.2	<sup>1</sup> 8.8
Employment cost index:												
Union	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	8.1	7.7	7.9	8.4	10.9	(NA)
Nonunion	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	6.8	6.9	8.0	7.3	8.6	(NA)
Private nonfarm business:												
Compensation per hour	7.0	6.6	6.7	7.6	9.4	9.6	8.1	7.6	8.5	9.7	9.9	
Productivity	.3	3.3	3.7	2.5	–2.4	2.1	3.2	2.0	–2	–3		
Unit labor costs	6.6	3.1	2.8	4.9	12.1	7.4	4.7	5.5	8.7	10.4	10.3	
Federal government budget: <sup>3</sup>												
Receipts	3.2	–2.8	10.8	11.3	14.1	6.1	6.8	19.3	12.4	15.9	11.6	
Outlays	6.5	7.5	9.7	6.5	9.1	21.0	12.4	9.9	11.9	9.5	17.4	
Gross debt	4.2	7.0	6.8	7.1	3.8	11.9	16.1	12.2	10.1	6.8	9.7	

NA Not available. <sup>1</sup> Change from June 1980–June 1981. <sup>2</sup> Change from 2d qtr. 1980 to 2d qtr. 1981. <sup>3</sup> Fiscal year data; see table 416. Source: U.S. Office of Management and Budget, *Special Analyses, Budget of the United States Government*, annual.<sup>4</sup> Estimate. Based on March revised budget estimates; see table 416, footnote 7, for explanation.Source: Except as noted, U.S. Bureau of Labor Statistics, *Monthly Labor Review*, and *Employment and Earnings*, monthly.

## Prices

## No. 769. GROSS NATIONAL PRODUCT IMPLICIT PRICE DEFATORS: 1960 TO 1980

[1972=100. See *Historical Statistics, Colonial Times to 1970*, series E 1-22, for data based on 1958=100. Minus sign (-) denotes decrease]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
Gross national product.....	68.7	74.4	91.5	105.7	114.9	125.6	132.1	139.8	150.1	162.8	177.4
Business nonfarm.....	72.6	77.1	92.9	103.8	113.9	125.2	131.5	139.2	148.9	161.5	177.0
Farm.....	69.1	73.5	82.9	105.8	150.2	145.3	142.9	144.4	176.3	200.8	193.1
Government.....	49.5	60.0	85.1	107.6	113.9	124.0	133.0	141.8	150.9	161.3	173.5
Personal consumption expenditures.....	71.9	77.2	92.5	105.7	116.3	125.2	131.6	139.5	149.1	162.3	178.9
Durable.....	63.8	86.8	95.7	101.7	108.2	117.3	123.9	129.2	136.2	144.8	156.0
Motor vehicles and parts.....	80.7	86.2	94.9	101.1	107.2	117.6	126.6	134.0	143.5	154.6	167.1
Nondurable <sup>1</sup> .....	72.6	77.3	93.6	108.3	123.1	132.1	137.0	143.4	153.2	169.8	188.5
Food.....	70.1	75.6	92.6	112.0	126.9	136.1	140.0	146.0	160.2	176.6	190.5
Gasoline and oil.....	84.5	87.5	97.9	109.4	147.7	157.7	164.3	174.0	181.6	243.4	339.4
Fuel oil and coal.....	76.2	80.8	93.6	114.8	182.4	197.4	212.0	239.7	252.5	340.6	471.3
Services <sup>1</sup> .....	67.9	74.2	90.5	104.7	113.0	121.6	129.6	139.9	150.1	162.1	178.1
Housing.....	75.1	80.3	92.1	104.8	110.6	116.8	123.4	131.4	140.9	151.9	165.6
Transportation.....	63.3	68.9	87.2	101.3	107.4	112.0	125.5	141.7	160.8	161.2	184.3
Gross private fixed investment <sup>2</sup> .....	72.1	74.0	91.1	105.5	116.7	131.9	139.2	149.7	163.7	179.1	194.2
Nonresidential.....	72.5	74.7	91.3	103.8	115.4	132.2	138.6	146.2	157.7	171.3	186.8
Structures.....	63.7	66.4	88.2	107.7	128.2	144.8	149.0	159.4	176.4	196.6	224.7
Producers' durable equipment.....	79.4	80.6	93.2	101.8	109.3	126.2	133.9	140.9	150.1	159.7	170.1
Residential.....	71.4	72.3	90.5	109.1	120.3	131.0	140.7	158.0	178.3	200.5	218.5
Exports.....	75.2	79.4	93.2	112.7	134.7	149.6	155.2	161.9	172.4	191.5	211.0
Imports.....	76.1	77.7	88.6	116.7	164.6	179.5	185.5	205.4	214.0	245.4	269.9
Government purchases <sup>3</sup> .....	58.0	66.0	87.7	105.7	116.4	127.5	135.7	144.8	155.7	168.1	184.4
Federal.....	59.4	67.1	88.6	106.3	114.9	126.0	133.5	142.9	153.7	165.1	183.8
State and local.....	56.5	64.9	88.6	106.9	117.4	128.3	137.0	146.0	156.9	169.8	184.7
ANNUAL PERCENT CHANGE <sup>4</sup>											
Gross national product.....	1.6	2.2	5.4	4.9	8.7	9.3	5.2	5.8	7.3	8.5	9.0
Personal consumption expenditure.....	1.8	1.7	4.6	4.6	10.0	7.7	5.1	6.0	6.9	8.9	10.2
Goods (durable).....	-	-3	2.6	2.1	6.4	8.4	5.6	4.3	5.4	6.3	7.7
Services.....	2.9	2.1	5.2	5.0	7.9	7.6	6.6	7.9	7.3	8.0	8.9
Gross private fixed investment <sup>2</sup> .....	.4	1.5	4.7	5.0	10.6	13.0	5.5	7.5	9.4	9.4	8.4
Nonresidential.....	.4	1.2	5.3	4.4	11.2	14.6	4.8	5.5	7.9	8.6	9.0
Residential.....	.4	1.5	3.2	6.4	10.3	8.9	7.4	12.3	12.8	12.5	9.0
Exports.....	2.3	2.8	5.3	6.5	19.5	11.1	3.7	4.3	6.5	11.1	10.2
Imports.....	1.2	1.2	6.5	9.6	44.0	9.1	3.3	10.7	4.2	14.7	18.1
Government purchases <sup>3</sup> .....	1.4	3.0	8.1	6.8	9.1	9.5	6.4	6.7	7.5	8.0	8.7

<sup>1</sup> Represents zero. <sup>2</sup> Includes items not shown separately.

<sup>3</sup> Domestic investments only. <sup>4</sup> For 1960, base year for percent change is 1959; for 1965, base year is 1964; for 1970, base year is 1969; for 1973-80, change from prior year shown. For explanation of average annual percent change, see Guide to Tabular Presentation.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-76*; and *1976-79*, and *Survey of Current Business*, July 1981.

## No. 770. PRODUCER PRICE INDEXES—MAJOR COMMODITY GROUPS: 1950 TO 1981

[1967=100. Prior to 1961, excludes Alaska and Hawaii. See text, p. 457. See also *Historical Statistics, Colonial Times to 1970*, series E 23 and 24]

YEAR	All commodities	Farm products	Processed foods and feeds	INDUSTRIAL COMMODITIES		YEAR	All commodities	Farm products	Processed foods and feeds	INDUSTRIAL COMMODITIES	
				Total	Energy <sup>1</sup>					Total	Energy <sup>1</sup>
1950.....	81.8	106.7	83.4	78.0	87.1	1967.....	100.0	100.0	100.0	100.0	100.0
1951.....	91.1	124.2	92.7	86.1	90.3	1968.....	102.5	102.5	102.2	102.5	98.9
1952.....	88.6	117.2	91.6	84.1	90.1	1969.....	106.5	109.1	107.3	106.0	100.9
1953.....	87.4	106.2	87.4	84.8	92.6	1970.....	110.4	111.0	112.1	110.0	108.2
1954.....	87.6	104.7	88.9	85.0	91.3	1971.....	114.0	112.9	114.5	114.1	115.2
1955.....	87.8	98.2	85.0	86.9	91.2	1972.....	119.1	125.0	120.8	117.9	118.6
1956.....	90.7	96.9	84.9	90.8	94.0	1973.....	134.7	176.3	148.1	125.9	134.3
1957.....	93.3	99.5	87.4	93.3	99.1	1974.....	160.1	187.7	170.9	153.8	208.3
1958.....	94.6	103.9	91.8	93.6	95.3	1975.....	174.9	186.7	182.6	171.5	245.1
1959.....	94.8	97.5	89.4	95.3	95.3	1976.....	183.0	191.0	178.0	182.4	265.6
1960.....	94.9	97.2	89.5	95.3	96.1	1977.....	194.2	192.5	186.1	195.1	302.2
1961.....	94.5	96.3	91.0	94.8	97.2	1978.....	209.3	212.5	202.6	209.4	322.5
1962.....	94.8	98.0	91.9	94.8	96.7	1979.....	235.6	241.4	222.5	236.5	408.1
1963.....	94.5	96.0	92.5	94.7	96.3	1980.....	268.8	249.4	241.2	274.8	574.0
1964.....	94.7	94.6	92.3	95.2	93.7	1981, May.....	289.5	260.0	249.4	298.4	680.1
1965.....	96.6	98.7	95.5	96.4	95.5						
1966.....	99.8	105.9	101.2	98.5	97.8						

<sup>1</sup> Fuels, related products, and power.

Source: U.S. Bureau of Labor Statistics, *Producer Prices and Price Indexes*, monthly and annual.

No. 771. PRODUCER PRICE INDEXES—ANNUAL PERCENT CHANGE IN SELECTED COMMODITY GROUPS:  
1970 TO 1981

[Minus sign (–) denotes decrease]

COMMODITY GROUP	1970 <sup>1</sup>	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981 <sup>2</sup>
Farm products.....	1.7	1.7	10.7	41.0	6.5	–5	2.3	.6	10.4	13.6	3.3	11.1
Processed foods, feeds .....	4.5	2.0	5.7	22.6	15.4	6.8	–2.5	4.6	8.9	9.8	8.4	6.4
Textile products, apparel .....	1.0	1.4	4.6	9.0	12.4	–9	7.5	3.9	3.8	5.6	8.8	8.8
Hides, skins, leather, related products.....	1.3	3.4	15.2	8.0	1.4	2.3	13.0	6.9	11.5	26.2	–1.4	10.5
Fuels, related products, power .....	5.3	7.5	3.9	13.2	55.1	17.7	8.4	13.8	6.7	28.5	40.7	23.4
Chemicals, allied products .....	2.3	2.0	–	5.6	33.5	23.5	3.3	3.0	3.1	11.8	17.1	9.8
Rubber and plastic products .....	2.8	.8	.1	2.8	21.2	10.3	6.0	5.3	4.3	11.2	11.9	7.9
Lumber and wood products .....	–9.3	11.8	13.6	22.8	3.6	–3.8	16.2	14.9	16.8	8.8	–3.8	9.4
Pulp, paper, and allied products .....	4.0	1.8	3.0	7.7	24.2	12.3	5.3	3.9	4.9	12.0	13.8	9.0
Metals and metal products .....	7.5	2.1	3.8	7.5	29.4	8.0	5.5	6.7	8.7	14.2	10.5	6.2
Machinery and equipment .....	4.6	3.7	2.1	3.2	14.5	15.8	5.9	6.3	7.9	9.1	12.1	9.7
Furniture and household durables .....	2.5	2.2	1.4	3.4	11.0	9.2	4.2	4.1	5.9	6.8	9.6	6.5
Nonmetallic mineral products .....	4.8	8.4	3.0	3.3	17.7	13.6	7.1	7.6	11.1	11.6	13.8	9.8
Transportation equipment .....	3.8	5.4	3.1	1.2	9.0	12.7	6.8	6.8	7.8	8.4	10.0	15.2
Miscellaneous products .....	4.2	2.9	1.6	4.5	11.2	11.0	4.1	6.9	12.2	13.2	24.0	5.7

— Represents zero. <sup>1</sup>Change from 1969. <sup>2</sup>Change from May 1980-May 1981.

Source: U.S. Bureau of Labor Statistics, *Producer Prices and Price Indexes*, monthly and annual.

NO. 772. PRODUCER PRICE INDEXES, BY STAGE OF PROCESSING: 1960 TO 1981

[1967=100, 1960 excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series E 73-86]

STAGE OF PROCESSING AND COMMODITY	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981, Jan.- May, avg.
<b>Crude materials for further processing.....</b>	<b>97.0</b>	<b>99.3</b>	<b>112.3</b>	<b>173.9</b>	<b>186.1</b>	<b>196.9</b>	<b>202.7</b>	<b>209.2</b>	<b>234.4</b>	<b>274.3</b>	<b>304.6</b>	<b>333.0</b>
Foodstuffs and feedstuffs .....	95.1	97.1	112.0	179.8	189.4	191.8	190.2	192.1	216.2	247.9	259.2	264.8
Nonfoods, exc. fuel .....	101.4	104.5	109.8	161.5	205.4	188.3	206.7	212.2	233.1	284.5	346.1	422.2
For manufacturing.....	101.8	105.3	109.6	165.4	212.8	192.4	211.6	216.8	238.2	292.7	357.4	439.0
For construction.....	97.0	97.5	113.9	124.9	135.1	151.1	161.2	170.6	185.7	207.0	237.6	259.7
Fuel.....	92.8	93.5	122.6	164.5	219.4	271.5	305.3	372.1	426.8	507.6	615.0	690.8
Manufacturing industries .....	92.9	93.6	116.9	153.2	197.4	252.1	300.1	384.6	446.2	549.6	690.5	788.4
Nonmanufacturing industries .....	92.5	93.3	130.2	179.4	248.4	297.2	317.1	370.9	421.1	485.0	567.0	626.0
<b>Intermediate materials, supplies, components.....</b>	<b>95.6</b>	<b>98.8</b>	<b>109.9</b>	<b>131.6</b>	<b>162.9</b>	<b>180.0</b>	<b>189.1</b>	<b>201.5</b>	<b>215.6</b>	<b>243.2</b>	<b>280.3</b>	<b>301.5</b>
Materials and components for manufacturing .....	96.5	97.4	110.0	127.7	162.2	178.7	185.4	195.4	208.7	234.4	265.7	281.9
Materials for—												
Food manufacturing.....	91.1	97.6	112.9	146.0	209.2	209.4	180.0	183.4	206.5	229.4	264.4	269.4
Non durable manufacturing .....	102.1	100.0	103.8	121.2	155.2	174.7	184.2	190.0	196.7	222.8	259.5	279.8
Durable manufacturing .....	94.3	96.8	114.7	133.7	171.7	188.4	201.0	217.6	236.2	270.6	301.0	308.1
Components for manufacturing.....	93.1	93.8	111.1	121.4	139.9	158.3	166.6	176.8	189.6	207.5	231.8	253.3
Materials and components for construction .....	95.9	96.2	112.6	136.7	161.6	176.4	188.4	203.4	224.7	247.4	268.3	283.6
Processed fuels, lubricants .....	98.2	97.4	105.0	131.5	199.1	233.0	250.1	282.5	295.3	364.8	509.0	586.3
Containers .....	95.5	95.8	111.4	129.2	152.2	171.4	180.2	188.3	202.8	226.8	254.5	270.8
Supplies .....	90.7	95.2	108.0	140.6	154.5	168.1	179.0	188.7	198.6	218.2	244.5	259.9
For manufacturing industries .....	96.2	95.9	110.0	121.1	141.7	157.9	166.5	177.0	189.3	207.5	231.9	247.1
For nonmanufacturing industries .....	88.5	95.0	107.2	150.7	161.1	173.4	185.5	194.8	203.3	229.8	251.1	266.6
<b>Finished goods.....</b>	<b>93.7</b>	<b>95.7</b>	<b>110.3</b>	<b>127.9</b>	<b>147.5</b>	<b>163.4</b>	<b>170.6</b>	<b>181.7</b>	<b>195.9</b>	<b>217.7</b>	<b>247.0</b>	<b>284.9</b>
Consumer goods .....	94.5	96.1	109.9	129.2	149.3	163.6	168.7	180.7	194.9	217.9	248.9	266.7
Foods .....	92.1	95.4	113.5	146.4	166.9	181.0	180.4	189.8	207.2	226.2	239.5	251.5
Crude foods .....	100.6	98.8	116.3	160.2	180.8	181.2	193.9	201.0	216.8	233.1	237.2	268.6
Processed foods .....	80.7	94.8	113.1	143.9	164.8	181.3	177.8	187.3	204.6	223.8	237.8	247.9
Other nondurable goods .....	94.7	95.9	108.3	120.5	146.8	163.0	174.8	189.3	200.0	231.3	283.9	312.3
Durable goods .....	99.2	97.9	106.9	115.8	126.3	138.2	144.5	152.8	165.9	183.2	206.2	215.2
Capital equipment.....	91.7	94.4	112.0	123.5	141.0	162.5	173.4	184.6	198.2	216.5	239.8	258.3

Source: Bureau of Labor Statistics, *Producer Prices and Price Indexes*, monthly and annual.

## Prices

## No. 773. PRODUCER PRICE INDEXES, BY COMMODITIES: 1965 TO 1981

[1967=100, except as noted. See text, p. 457, and *Historical Statistics, Colonial Times to 1970*, series E 23-29]

COMMODITY GROUP	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981, Jan.- May, avg.
All commodities <sup>1</sup> .....	96.6	110.4	134.7	160.1	174.9	183.0	194.2	209.3	235.6	268.8	289.5
Farm products and processed foods and feeds.....	97.1	111.7	159.1	177.4	184.2	183.1	188.8	206.5	229.8	244.7	254.4
Farm products <sup>1</sup> .....	98.7	111.0	176.3	187.7	186.7	191.0	192.5	212.5	241.4	249.4	262.0
Fresh and dried fruits, vegetables.....	100.2	116.6	168.4	192.3	188.7	178.4	192.2	216.5	229.0	238.6	276.0
Grains.....	97.2	98.8	183.6	257.9	223.9	205.9	165.0	182.5	214.8	239.0	265.9
Livestock.....	99.4	116.7	190.4	170.6	187.8	173.3	173.0	220.1	260.3	252.7	245.3
Live poultry.....	105.5	98.5	179.5	157.4	189.8	166.9	175.4	199.8	194.3	202.1	210.0
Plant and animal fibers.....	126.4	90.2	197.8	193.9	153.1	233.9	202.3	193.4	208.9	271.1	271.0
Fluid milk.....	84.9	115.3	145.5	172.8	180.2	201.2	202.8	219.7	250.1	271.2	287.6
Eggs.....	110.9	126.8	165.7	160.6	159.8	179.1	162.0	158.6	176.5	171.0	182.4
Hay, hayseeds, and oilseeds.....	97.8	99.4	220.1	228.6	200.2	210.4	234.2	215.8	244.3	247.1	298.3
Processed foods and feeds.....	95.5	112.1	148.1	170.9	182.6	178.0	186.1	202.6	222.5	241.2	249.4
Cereal and bakery products.....	93.1	107.7	134.4	171.2	178.0	172.1	173.4	190.3	210.3	236.0	252.7
Meats, poultry, and fish.....	96.2	115.8	167.5	163.5	191.0	181.6	182.0	217.1	242.0	243.1	243.8
Dairy products.....	89.0	111.2	131.1	146.4	155.8	168.5	173.4	188.4	211.2	230.6	252.7
Processed fruits and vegetables.....	95.2	110.6	129.6	154.6	169.8	170.2	187.4	202.6	221.9	228.7	250.6
Sugar and confectionery.....	96.5	115.8	132.3	256.9	254.3	190.9	177.4	197.8	214.7	322.5	304.6
Beverages and beverage materials.....	99.2	113.0	121.7	140.7	162.4	173.6	201.0	200.0	210.7	233.0	243.3
Animal fats and oils.....	136.0	140.4	230.4	327.7	341.8	210.2	267.0	291.2	320.6	279.2	291.2
Crude vegetable oils.....	112.5	121.0	174.8	291.1	208.1	162.5	197.5	219.2	243.7	202.8	191.8
Refined vegetable oils.....	105.1	119.2	154.5	265.6	213.2	187.5	198.9	228.8	231.6	179.8	206.7
Vegetable oil end products.....	99.2	111.9	143.6	224.8	211.5	174.2	198.1	209.4	223.5	232.3	239.2
Miscellaneous processed foods.....	100.9	113.1	123.3	158.6	178.4	174.7	190.0	199.0	216.5	227.2	248.5
Manufactured animal feeds.....	94.9	103.7	198.7	184.1	172.1	194.4	204.8	197.4	219.4	226.8	238.9
Industrial commodities.....	96.4	110.0	125.9	153.8	171.5	182.4	195.1	209.4	236.5	274.5	298.4
Textile products and apparel.....	99.8	107.1	123.8	139.1	137.9	148.2	154.0	159.8	168.7	183.5	195.0
Synthetic fibers <sup>2</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	102.4	107.3	109.6	119.0	134.7	150.4
Processed yarns, threads <sup>2</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	99.5	100.8	102.4	109.2	122.5	133.0
Gray fabrics <sup>2</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	106.1	104.7	116.6	127.1	138.1	144.5
Finished fabrics <sup>2</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	101.1	103.7	103.8	107.4	115.7	123.1
Apparel.....	97.1	110.8	119.0	129.5	133.4	139.9	147.3	152.4	160.4	172.4	180.8
Textile housefurnishings.....	97.3	103.5	113.3	143.1	151.9	159.3	171.3	178.6	180.4	206.9	225.6
Hides, skins, leather, related products <sup>1</sup> .....	94.3	110.3	143.1	151.1	148.5	167.8	179.3	200.0	252.4	248.9	261.8
Hides and skins.....	118.0	104.2	253.9	195.9	174.5	258.4	286.7	360.5	535.4	370.9	372.5
Leather.....	98.0	107.7	160.1	154.3	151.5	188.1	201.0	238.6	356.7	310.6	328.0
Footwear.....	90.7	113.3	130.5	140.1	147.8	158.9	168.7	183.0	218.0	233.1	240.4
Fuels, related products, power.....	95.5	106.2	134.3	208.3	245.1	265.6	302.2	322.5	408.1	574.0	680.1
Coal.....	93.4	150.3	218.1	322.4	385.8	368.7	389.4	430.0	450.9	467.3	482.8
Coke (foundry byproduct).....	95.8	127.4	166.8	247.7	330.8	346.8	379.4	411.8	429.2	430.6	438.1
Gas fuels.....	92.8	103.6	125.7	162.2	216.7	268.6	387.8	428.7	544.1	760.7	874.8
Electric power.....	100.1	105.9	129.3	183.1	193.4	207.6	232.1	250.6	270.2	321.6	350.7
Crude petroleum, domestic.....	98.2	106.1	126.0	211.8	245.7	256.6	274.2	300.1	376.5	556.4	814.6
Petroleum products, refined.....	93.8	101.0	128.7	223.4	257.5	276.6	308.2	321.0	444.8	674.7	800.3
Chemicals and allied products <sup>1</sup> .....	99.0	102.2	110.4	146.8	181.3	187.2	192.8	198.8	222.3	260.3	281.0
Industrial chemicals.....	97.5	100.9	103.4	151.7	206.9	213.9	223.9	225.6	264.0	324.0	354.8
Prepared paint.....	96.4	112.4	122.2	145.7	166.9	174.4	182.4	192.3	204.4	235.3	247.1
Paint materials.....	98.8	101.4	113.2	152.3	177.2	188.2	205.9	212.7	241.2	273.9	290.8
Drugs and pharmaceuticals.....	100.4	101.2	104.3	112.7	126.6	134.0	140.5	148.1	159.4	174.5	188.9
Fats and oils, edible.....	138.6	132.8	228.3	338.2	255.2	249.3	279.0	315.8	376.6	298.0	304.2
Agricultural chemicals and products.....	98.3	88.5	96.5	137.7	203.8	188.3	187.8	198.4	214.4	257.1	273.9
Plastic resins and materials.....	99.3	90.6	92.1	143.8	180.9	194.0	197.5	199.8	235.9	279.2	280.5
Rubber and plastic products <sup>1</sup> .....	95.9	108.3	112.4	136.2	150.2	158.2	167.6	174.8	194.3	217.4	228.6
Crude rubber.....	105.6	101.6	111.9	139.4	145.6	161.0	171.7	187.2	221.4	264.3	280.5
Tires and tubes.....	93.8	109.0	111.4	133.4	148.5	161.5	169.6	179.2	205.9	236.9	246.7
Miscellaneous rubber products.....	94.5	113.3	124.8	140.8	155.9	163.9	176.8	189.6	206.4	226.6	244.7
Plastic construction products <sup>3</sup> .....	(NA)	97.2	94.1	118.9	123.9	127.2	132.3	136.4	147.5	154.2	154.4
Laminated plastic sheets, high pressure <sup>4</sup> .....	(NA)	98.8	116.3	124.6	131.1	141.1	146.4	158.8	173.7	186.9	206.2
Lumber and wood products.....	95.9	113.6	177.2	183.6	176.9	180.0	236.3	276.0	300.4	288.9	296.1
Lumber.....	94.0	113.7	205.2	207.1	192.5	233.0	276.5	322.4	354.3	325.8	330.1
Millwork.....	96.0	116.0	144.2	157.1	160.4	176.9	193.7	235.4	254.3	260.4	274.9
Plywood.....	103.5	108.4	155.2	161.1	161.2	187.0	212.2	235.6	250.5	246.5	249.8
Other wood products.....	(NA)	117.3	149.7	166.6	161.9	166.2	184.3	211.8	235.4	249.2	267.6
Pulp, paper, and allied products.....	96.2	108.2	122.1	151.7	170.4	179.4	186.4	195.6	219.0	249.2	267.6
Pulp, paper, and products, exc. building paper and board.....	96.2	108.5	122.5	152.8	179.1	180.8	187.3	195.6	220.2	250.6	266.4
Woodpulp.....	100.1	109.6	128.3	217.8	283.4	286.0	281.1	266.5	314.3	380.3	393.7
Wastepaper.....	127.3	125.0	197.4	265.5	110.2	184.9	187.2	191.2	206.6	208.7	185.9
Paper.....	94.8	111.0	121.4	148.6	172.9	182.3	194.3	206.1	229.6	256.8	274.1
Paperboard.....	101.5	101.1	115.1	152.2	170.3	176.0	176.2	179.6	202.1	234.6	256.0
Converted paper and paperboard products.....	94.7	107.9	121.6	144.9	161.8	170.0	176.6	186.5	209.9	238.5	253.9
Building paper and board.....	100.9	101.0	112.8	123.5	127.1	138.7	157.0	187.4	182.4	206.2	228.2

See footnotes at end of table.

## No. 773. PRODUCER PRICE INDEXES, BY COMMODITIES: 1965 TO 1981—Continued

[1967=100, except as noted. See headnote, p. 462]

COMMODITY GROUP	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981, Jan.- May, avg.
<b>Metals and metal products</b>	96.4	116.6	132.8	171.9	185.6	195.9	209.0	227.1	259.3	286.4	296.4
Iron and steel	97.9	115.1	178.6	209.0	215.9	230.4	253.6	283.5	305.2	327.1	327.6
Steel mill products	97.5	114.2	134.1	170.0	197.2	209.8	229.9	254.5	280.4	302.7	327.6
Nonferrous metals	95.3	124.7	135.1	187.1	171.6	181.6	195.4	207.8	216.7	305.0	288.1
Metal containers	96.2	126.2	134.7	164.7	192.1	202.2	218.2	243.4	269.2	298.6	313.5
Hardware	93.1	111.5	124.7	140.7	163.0	173.1	185.4	200.4	218.7	240.5	256.1
Plumbing fixtures, brass fittings	93.3	111.2	125.8	149.1	162.3	174.1	186.6	199.1	217.1	246.7	261.1
Heating equipment	98.9	110.6	120.4	135.0	150.7	156.0	165.5	174.4	187.1	206.7	218.2
Fabricated structural metal products	96.1	112.0	127.4	161.2	189.1	193.8	206.7	226.4	248.9	270.5	289.2
Miscellaneous metal products	96.0	114.3	129.5	157.3	181.1	186.9	196.2	212.0	231.4	250.5	265.3
<b>Machinery and equipment</b>	93.9	111.4	121.7	139.4	161.4	171.0	181.7	196.1	213.9	239.8	256.0
Agricultural	94.0	113.2	125.9	143.3	168.6	183.0	197.9	213.1	232.1	259.2	279.6
Construction	93.6	115.9	130.7	152.3	185.2	198.9	213.5	232.9	256.2	289.4	311.6
Metalworking	91.8	114.1	125.5	146.9	171.6	187.2	198.5	217.8	241.3	274.4	294.6
General purpose	92.5	113.7	127.0	151.2	178.5	189.8	201.8	216.6	236.4	264.6	281.6
Special industry	92.5	115.7	130.1	151.0	175.0	188.4	202.7	223.0	247.0	275.8	301.3
Electrical	95.1	108.4	112.4	125.0	140.7	146.7	154.1	164.9	178.9	201.7	215.4
Miscellaneous	96.2	112.8	120.0	139.5	162.3	171.9	180.7	194.7	208.9	229.9	245.8
<b>Furniture and household durables<sup>1</sup></b>	96.9	107.5	115.2	127.9	139.7	171.9	151.5	160.4	171.3	187.7	195.6
Household furniture	94.1	111.7	123.0	136.6	146.3	153.6	162.2	173.5	186.3	204.8	214.8
Commercial furniture	93.3	114.5	129.4	152.4	166.7	173.5	185.6	201.5	221.8	236.0	252.3
Floor coverings	104.5	99.4	102.2	115.4	124.9	131.4	136.4	141.6	147.9	163.0	175.0
Household appliances	98.9	105.3	108.5	117.9	132.3	139.2	145.1	153.0	160.9	174.2	183.1
Home electronic equipment	103.1	93.3	91.9	93.1	93.5	91.3	87.7	90.2	91.1	91.4	91.3
<b>Nonmetallic mineral products<sup>1</sup></b>	97.5	112.9	130.2	153.2	174.0	186.3	200.5	222.8	248.6	280.3	303.5
Flat glass	98.2	115.6	121.4	128.8	138.2	150.0	160.8	172.8	183.9	196.5	205.8
Concrete ingredients	97.5	112.6	131.2	148.7	172.3	186.7	199.0	217.7	244.0	274.0	293.0
Concrete products	96.3	112.2	131.7	151.7	170.5	180.1	191.4	214.0	244.1	273.9	288.0
Structural clay products	96.6	109.8	123.3	135.2	151.2	163.5	179.8	197.2	217.9	231.5	244.1
Refractories	98.1	120.9	136.3	143.8	166.0	184.0	199.5	216.5	236.5	264.6	295.1
Asphalt roofing	98.7	102.7	135.5	196.0	225.9	238.3	253.0	292.0	325.3	396.8	402.7
Gypsum products	101.2	99.7	120.9	137.6	144.0	154.4	183.5	209.1	252.3	256.3	258.5
Glass containers	97.0	120.4	138.9	155.6	179.7	195.4	214.2	244.4	261.1	292.7	319.0
<b>Transportation equipment<sup>1, 6</sup></b>	(NA)	104.6	115.1	125.5	141.5	151.1	161.3	173.5	188.1	207.0	229.8
Motor vehicles and equipment	98.5	108.7	119.2	129.2	144.6	153.8	163.7	176.0	190.5	208.8	231.5
Motor vehicles	99.6	107.3	116.7	125.5	137.5	146.4	155.7	167.7	181.6	197.7	211.3
Railroad equipment	97.4	115.1	134.7	163.4	201.2	216.7	233.5	252.8	277.3	313.1	336.3
<b>Miscellaneous products<sup>1</sup></b>	95.9	109.6	119.7	133.1	147.7	216.7	233.5	252.8	208.7	258.8	264.3
Toys, sporting goods, small arms, etc.	97.1	109.3	117.9	132.3	146.0	150.0	155.2	163.2	176.2	198.6	210.5
Tobacco products	94.1	113.6	121.9	132.8	149.6	163.0	179.8	198.5	217.8	245.7	260.5
Notions	97.8	108.4	114.3	137.4	151.0	162.3	172.4	182.0	191.8	217.2	243.7
Photographic equipment and supplies	98.2	104.9	108.4	116.8	130.6	136.2	139.9	145.7	153.7	202.9	210.5

NA Not available. <sup>1</sup>Includes other product groups, not shown separately.<sup>2</sup>Dec. 1975=100.<sup>3</sup>Dec. 1969=100.<sup>4</sup>Dec. 1970=100. <sup>5</sup>Dec. 1968=100.Source: U.S. Bureau of Labor Statistics, *Producer Prices and Price Indexes*, monthly and annual.

## No. 774. INDEXES OF SPOT PRIMARY MARKET PRICES: 1965 TO 1981

[1967=100. Index computed daily in 1965; weekly, beginning 1970. Represents unweighted geometric average of price quotations of 22 commodities, traded on organized exchanges. This index is much more sensitive to changes in market conditions than is a monthly producer price index.]

ITEM AND NUMBER OF COMMODITIES	1965 (6-15)	1970 (6-16)	1973 (6-12)	1974 (6-11)	1975 (6-24)	1976 (6-29)	1977 (6-28)	1978 (6-27)	1979 (6-28)	1980 (6-24)	1981 (5-26)
All commodities (22)	106.2	113.6	171.3	221.5	189.9	210.9	206.7	230.0	281.3	265.1	267.9
Foodstuffs (9)	94.4	112.2	172.7	211.5	215.3	213.7	210.6	238.1	265.1	260.9	244.2
Raw industrials (13)	115.1	114.4	170.2	228.5	174.1	208.9	204.0	224.4	293.0	268.0	285.4
Livestock and products (5)	121.4	123.6	222.6	190.1	240.8	224.4	234.6	278.0	336.3	250.5	265.2
Metals (5)	114.2	125.2	145.6	261.4	166.8	215.4	203.0	220.6	332.8	257.9	287.3
Textiles and fibers (4)	110.3	99.9	159.1	183.9	158.8	181.4	170.1	173.6	192.2	234.7	243.0
Fats and oils (4)	114.8	128.6	187.9	224.3	213.6	208.3	235.7	253.5	289.4	229.5	238.7

Source: U.S. Bureau of Labor Statistics, *Tuesday Spot Market Price Indexes and Prices*, weekly and monthly.

## Prices

## No. 775. PRODUCER PRICES OF SELECTED COMMODITIES: 1970 TO 1981

(In dollars per unit. Annual averages of monthly figures. See *Historical Statistics, Colonial Times to 1970*, series E 123-134, for selected items)

COMMODITY	Unit	1970	1974	1975	1976	1977	1978	1979	1980	1981, Jan.- May, avg.
<b>Farm products:</b>										
Wheat, hard winter, No. 1, K.C. ....	Bu.	1.48	4.68	3.81	3.34	2.53	3.17	3.98	4.30	4.40
Steers, choice.....	100 lb.	30.04	42.24	44.36	39.27	40.28	52.26	67.69	67.20	63.83
Cotton, raw.....	Lb.	.25	.58	.45	.68	.61	.58	.63	.82	.81
Wool, combing and staple.....	Lb.	1.03	1.78	1.49	1.82	1.83	1.90	2.16	(NA)	2.47
Eggs, large.....	Doz.	.43	.63	.62	.70	.63	.62	.69	.67	.71
Corn, No. 2 yellow, Chicago.....	Bu.	1.37	3.22	2.90	2.70	2.21	2.56	2.91	3.32	3.48
Sugar, raw cane.....	100 lb.	8.09	29.04	23.00	13.49	10.69	13.84	15.27	30.06	23.28
<b>Processed foods:</b>										
Flour, Kansas City.....	100 lb.	5.57	11.06	9.37	8.91	6.23	7.48	9.27	10.08	10.44
Sugar, granulated (excl. excise tax).....	5 lb.	(NA)	1.67	1.67	1.03	.92	1.09	1.17	2.16	1.90
Coffee, tin.....	Lb.	.95	1.21	1.30	2.01	3.52	2.89	2.78	2.93	2.53
Lard, 1 and 2 lb. prints.....	Lb.	.17	.35	.36	.24	.24	.34	.40	.37	(NA)
Beef, choice.....	100 lb.	48.93	68.55	74.93	63.96	65.03	83.12	103.01	106.79	(NA)
Lamb, choice.....	100 lb.	(NA)	82.56	84.45	102.15	107.29	126.05	139.53	133.30	(NA)
Shrimp, fresh processed.....	Lb.	(NA)	2.27	2.69	3.63	3.40	3.61	5.16	4.53	(NA)
Salmon, No. 1, tall can.....	Case/48	(NA)	69.92	69.00	68.50	65.17	67.59	77.74	86.00	
Haddock, unprocessed.....	100 lb.	(NA)	50.58	54.46	58.79	68.79	57.33	64.68	68.27	84.60
<b>Textile products:</b>										
Polyester/cotton yarns, 18's.....	Lb.	(NA)	(NA)	(NA)	1.40	1.40	1.39	1.41	1.74	1.81
Polyester twill, textured.....	Yd.	(NA)	(NA)	(NA)	1.78	1.42	1.46	1.38	1.40	1.73
<b>Hides, leather, and shoes:</b>										
Cattlehides, packer, heavy native <sup>a</sup> .....	Lb.	.13	.24	.23	.34	.37	.47	.73	.46	(NA)
Lamb garment leather.....	Sq. ft.	.39	.72	.72	.76	.92	1.05	2.40	1.18	1.14
Oxfords, Goodyear leather upper, sole.....	Pair	13.49	16.12	18.84	17.93	19.00	20.77	25.85	(NA)	(NA)
<b>Fuels, related products, power:</b>										
Elec. Power, E. No. Cen.....	200,000 kWh.	(NA)	4,361	5,281	5,675	6,276	6,989	7,661	8,834	8,777
Gasoline, unleaded <sup>b</sup> .....	Gal.	(NA)	(NA)	(NA)	(NA)	(NA)	.47	.54	.98	1.10
Gasoline, regular <sup>b</sup> .....	Gal.	(NA)	(NA)	.35	.39	.42	.44	.60	.93	1.06
Gasoline, premium <sup>b</sup> .....	Gal.	(NA)	(NA)	(NA)	.42	.45	.48	.65	.99	1.12
Distillate fuel oil, No. 2, to resellers.....	Gal.	(NA)	(NA)	.29	.31	.36	.37	.53	.78	.98
<b>Chemicals and allied products:</b>										
Aspirin.....	Lb.	.58	.82	1.00	1.08	1.14	1.20	1.28	1.43	1.63
Paint, outside.....	Gal.	2.67	8.04	9.56	9.41	9.47	9.91	10.61	12.22	13.41
Paint, inside, latex.....	Gal.	(NA)	5.93	6.57	6.82	7.19	7.61	7.88	8.99	10.96
<b>Rubber and rubber products:</b>										
Natural rubber, No. 1 ribbed <sup>c</sup> .....	Lb.	.21	.40	.30	.40	.42	.50	.64	.73	.64
Synthetic rubber, neoprene, GN type.....	Lb.	.43	.52	.64	.68	.70	.77	.82	.97	1.08
<b>Lumber and wood products:</b>										
Softwood plywood, interior.....	1,000 sq. ft.	(NA)	126	139	145	163	192	201	191	(NA)
Redwood boards, clear, f.g. dry.....	M. bd. ft.	(NA)	494	506	505	603	805	979	1,036	(NA)
Maple, No. 1, common.....	M. bd. ft.	(NA)	234	230	230	274	308	351	354	(NA)
Southern pine, finish, C and better.....	M. bd. ft.	(NA)	319	317	342	396	499	547	584	(NA)
<b>Pulp, paper, and allied products:</b>										
Woodpulp, sulphate, bleached <sup>d</sup> .....	Ton	131	263	336	338	331	307	368	452	478
Book paper, No. 3 uncoated.....	100 lb.	21.57	23.59	24.25	25.28	26.68	28.58	33.63	37.53	39.32
Liner, 100 lb. test.....	1,000 sq. ft.	2.55	3.65	4.32	4.39	4.29	4.31	4.94	5.81	6.30
Toilet tissue.....	Case	9.07	12.20	15.62	16.86	18.20	19.52	21.78	25.00	24.25
<b>Metal and metal products:</b>										
Iron ore, Mesabi.....	Long ton	10.76	13.90	17.83	19.38	20.95	21.55	22.43	26.56	28.50
Iron and steel scrap, No. 1 heavy melting <sup>e</sup> .....	Long ton	42.04	104.17	70.92	79.13	66.96	78.29	101.48	96.17	106.20
Steel rails, standard <sup>f</sup> .....	100 lb.	5.80	10.53	12.72	14.17	15.17	16.90	18.80	21.35	23.18
Domestic copper, cathode.....	Lb.	(NA)	.77	.64	.69	.66	(NA)	.81	(NA)	(NA)
Red brass ingot.....	Lb.	.56	.84	.65	.70	.70	.73	.83	1.07	(NA)
Aluminum sheet.....	Lb.	(NA)	.86	1.00	1.07	1.17	1.40	1.71	1.78	1.88
Nails, wire, 8d, common.....	50 lb.	(NA)	9.15	10.67	10.74	11.52	12.06	13.16	14.63	15.37
<b>Nonmetallic mineral products:</b>										
Brick, building.....	1,000	(NA)	49.94	56.09	62.76	72.32	82.68	92.80	99.04	103.97
Glass, window, single B.....	50 sq. ft.	6.60	9.04	8.93	9.02	9.76	10.84	(NA)	12.16	(NA)
Shingles, asphalt roofing, strip.....	Square	(NA)	11.56	13.24	14.04	14.95	17.52	19.20	22.66	20.40
<b>Miscellaneous:</b>										
Cigarettes, filter tip, king size <sup>g</sup> .....	1,000	5.86	6.86	7.75	8.45	9.42	10.43	11.44	12.93	13.78
Soybean meal.....	Ton	79.08	142.42	123.65	161.54	190.58	172.54	(NA)	(NA)	(NA)

NA Not available. <sup>a</sup>10-month average. <sup>b</sup>11-month average. <sup>c</sup>Steer. <sup>d</sup>Dealer tankwagon. <sup>e</sup>Smoked sheets. <sup>f</sup>Standard, carbon steel, No. 1 open hearth, 115 lb. per linear yard, control cooled, f.o.b. mill. <sup>g</sup>Excludes excise tax.

Source: U.S. Bureau of Labor Statistics, *Producer Prices and Price Indexes*, monthly and annual.

**NO. 776. AVERAGE PRICES (UNIT VALUES)—SELECTED COMMODITIES EXPORTED AND IMPORTED:  
1970 TO 1980**

[In dollars per unit. Includes trade of Puerto Rico with foreign countries. Unit values obtained by dividing annual values of domestic exports and imports by annual quantities. Values of goods exported represent those at port of export. For 1970, values of goods imported represent market values in country from which imported; thereafter, transaction values f.a.s. (free alongside ship) at port of export. Unit values may show actual price movements only roughly for commodities subject to considerable price variations among different grades, methods of packing, etc., and to year-to-year variations in proportions of grades, etc. Unit values of agricultural exports also include effects of Commodity Credit Corporation sales for export]

COMMODITY	Unit	1970	1974	1975	1976	1977	1978	1979	1980
<b>EXPORTS</b>									
Wheat	Bushel.....	1.58	4.80	4.54	3.98	3.09	3.46	4.29	4.85
Milled rice, less than 75% broken kernels	Lb.....	.079	.224	.189	.127	.140	.181	.180	.197
Corn	Bushel.....	1.45	3.20	3.36	2.98	2.58	2.64	2.99	3.41
Grain sorghums	Bushel.....	1.32	3.07	3.05	2.82	2.51	2.60	2.87	3.34
Wheat flour	100 lb.....	3.85	10.91	10.34	9.97	8.24	8.83	11.01	12.17
Leaf tobacco, flue-cured, unstemmed	Lb.....	.921	1.23	1.46	1.59	1.69	1.97	2.06	2.11
Cigarettes	1,000.....	5.45	6.41	7.38	8.30	9.20	10.08	11.40	12.87
Soybeans	Bushel.....	2.80	6.91	6.24	5.89	7.38	8.08	7.43	7.35
Synthetic rubber, "s" type <sup>1</sup>	Lb.....	.177	.274	.283	.307	.364	.377	.418	.402
Woodpulp, special alpha and dissolving grades	Sh. ton.....	187.40	329.47	296.97	395.42	397.74	402.44	448.78	511.57
Cotton, upland, staple 1" to 1½"	Lb.....	.259	.533	.542	.648	.704	.298	.670	.706
Cotton, upland, staple, 1½" and over	Lb.....	.308	.579	.601	.685	.757	.321	.754	.817
Bituminous coal	Sh. ton.....	13.40	40.39	49.23	48.59	48.64	50.32	51.37	40.37
Steel scrap, No. 1, heavy melting	Sh. ton.....	43.37	102.46	84.53	72.85	61.19	74.50	100.05	102.20
Tallow, edible	Lb.....	.097	.199	.162	.169	.187	.202	.245	.218
Soybean oil, crude	Lb.....	.122	.289	.332	.207	.253	.268	.291	.269
Carbon steel sheets, cold rolled	Lb.....	.077	.139	.175	.138	.121	.160	.170	.184
Polyethylene resin	Lb.....	.134	.342	.257	.269	.271	.262	.368	.423
Styrene, polymer, and copolymer resins	Lb.....	.193	.401	.343	.339	.372	.452	.501	.576
Container board liners	Lb.....	.062	.116	.126	.120	.111	.112	.132	.156
Nylon yarn, incl. monofilaments	Lb.....	.953	1.14	1.15	1.17	1.18	1.33	1.43	1.41
Carbon black, furnace	Lb.....	.090	.139	.167	.218	.264	.294	.306	.331
Copper, refined, crude forms	Lb.....	.671	.900	.654	.701	.685	.637	.790	.974
Aluminum metal and alloys	Lb.....	.263	.375	.361	.389	.483	.531	.659	.807
<b>IMPORTS</b>									
Canned beef	Lb.....	.425	1.07	.724	.744	.754	.768	1.11	1.44
Cashew nuts	Lb.....	.599	.930	.848	.898	.937	1.34	1.46	2.02
Raw sugar	Lb.....	.070	.195	.245	.126	.092	.086	.101	.223
Coffee (Brazil)	Lb.....	.474	.655	.678	1.21	1.92	1.81	1.55	1.87
Coffee (Colombia)	Lb.....	.535	.684	.683	1.07	2.00	1.83	1.53	1.70
Cocoa (cacao beans, Africa)	Lb.....	.352	.562	.670	.617	.975	1.37	1.57	1.26
Tee (Sri Lanka)	Lb.....	.390	.504	.582	.534	1.06	.871	.841	.858
Whisky, containers of 1 gal. or less (U.K.)	Proof gal.....	7.48	7.94	8.22	8.37	8.31	10.18	11.17	13.58
Whisky, containers of 1 gal. or less (Canada)	Proof gal.....	6.70	7.13	7.60	7.45	8.14	8.68	8.71	9.99
Cigarette leaf, unstemmed	Lb.....	.568	.796	1.03	1.31	1.20	1.19	1.24	1.27
Goat and kid skins, dry	Lb.....	1.06	1.23	1.26	2.04	1.22	2.56	2.83	40.0
Crude rubber, except milk	Lb.....	.189	.331	.238	.321	.360	.403	.529	.588
Sawed lumber, fir	Mill. bd. ft.....	71.13	138.19	137.64	170.17	194.93	218.29	253.50	255.12
Sawed lumber, spruce	Mill. bd. ft.....	73.98	140.99	132.55	160.11	178.27	206.27	222.58	192.25
Woodpulp, sulphite, bleached, exc. rayon and special chemical grades	Sh. ton.....	142.90	290.77	323.72	311.92	304.01	296.12	363.72	443.79
Woodpulp, sulphate, bleached	Sh. ton.....	143.68	286.17	353.41	350.47	323.81	287.60	346.41	431.74
Carpet wool, scoured <sup>2</sup>	Lb.....	.424	.957	.825	.835	.994	1.49	(NA)	(NA)
Apparel wool, 60's and finer <sup>2</sup>	Lb.....	.879	2.40	1.59	1.51	1.56	1.68	1.80	1.70
Iron ore (Canada)	Ton.....	12.42	17.51	22.15	25.12	27.46	28.89	30.18	33.61
Iron ore (Venezuela)	Ton.....	8.33	12.30	15.64	16.87	19.27	17.85	19.21	22.48
Manganese ore, metallurgical grade <sup>3</sup>	Lb.....	.020	.038	.050	.057	.062	.059	.055	.069
Bauxite, crude	Ton.....	10.91	11.79	20.67	24.16	25.73	27.74	28.78	27.81
Copper ores and concentrates <sup>3</sup>	Lb.....	.617	.718	.566	.646	.586	.581	.800	.700
Crude petroleum <sup>4</sup> (Venezuela)	Bbl.....	2.30	11.11	11.66	12.35	13.04	12.81	17.18	27.64
Newsprint	Sh. ton.....	140.11	203.18	244.10	265.23	285.37	280.80	321.50	368.98
Jute burlap	Lb.....	.230	.304	.294	.241	.246	.288	.350	.379
Concrete reinforcement bars	Lb.....	.051	.136	.092	.076	.080	.093	.140	.150
Steel tubes and pipes, at least .065" thick, ¼" diameter	Lb.....	.075	.168	.208	.134	.140	.138	.204	.233
Copper, refined (Chile) <sup>3</sup>	Lb.....	.830	.880	.531	.583	.578	.576	.848	.986
Nickel in pigs, ingots, shot, etc.	Lb.....	1.30	1.61	1.88	2.07	2.15	1.93	2.34	3.17
Tin bars, blocks, pigs, etc. (Malaysia)	Lb.....	1.66	3.54	3.35	3.31	4.37	5.52	6.65	7.75

NA Not available. <sup>1</sup>Excludes latex (liquid). <sup>2</sup>Clean content. <sup>3</sup>Metal content. <sup>4</sup>Testing 25° API or more.

Source: U.S. Bureau of the Census, *U.S. Exports, Schedule B Commodity, By Country*, Report FT 446, annual, and *U.S. Imports for Consumption and General Imports, T5USA Commodity by Country*, Report FT 246, annual.

## NO. 777. IMPORT PRICE INDEXES—SELECTED COMMODITIES: 1970 TO 1981

[As of June, except as indicated. Products classified and weighted by 1975 Tariff Schedule of the United States Annotated, a scheme for describing and reporting product composition and value of U.S. imports. Import prices are based on U.S. dollar prices paid by importer. Prices are f.o.b. (free on board) foreign port or c.i.f. (cost, insurance, and freight) U.S. port transaction prices, as indicated]

COMMODITY	Unit	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981
Food.....	Sept. 1977 = 100 .....	(NA)	(NA)	(NA)	(NA)	(NA)	100.0	97.5	107.2	134.0	126.2
Lumber, conifer (c.i.f.).....	1969 = 100 .....	89.9	177.9	161.7	154.2	173.6	193.6	231.0	249.8	212.6	224.0
Intermediate mfg. goods.....	Dec. 1977 = 100 .....	(NA)	(NA)	(NA)	(NA)	(NA)	100.0	108.3	127.9	150.8	149.7
Paper and paperboard.....	1967 = 100 .....	107.2	123.0	149.3	183.2	197.5	211.2	223.8	243.0	261.2	300.1
Textile fabrics.....	Dec. 1977 = 100 .....	(NA)	(NA)	(NA)	(NA)	(NA)	100.0	106.5	121.2	138.2	136.9
Iron and steel (c.i.f.).....	March 1977 = 100 .....	(NA)	(NA)	(NA)	(NA)	(NA)	101.2	118.6	138.5	152.1	155.4
Manufactures of metals.....	March 1977 = 100 .....	(NA)	(NA)	(NA)	(NA)	(NA)	99.0	109.8	120.0	129.2	134.3
Rubber tires and tubes (c.i.f.).....	1970 = 100 .....	100.0	125.1	145.5	154.0	158.8	171.4	183.9	207.0	242.6	256.8
Plywood <sup>1</sup> (c.i.f.).....	1975 = 100 .....	(NA)	100.0	101.4	85.5	102.5	112.5	116.3	175.8	179.4	179.8
Non-electrical machinery.....	1978 = 100 .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	100.0	108.7	109.5
Office machines.....	March 1977 = 100 .....	(NA)	(NA)	(NA)	(NA)	(NA)	100.8	106.0	109.6	107.6	103.9
Metalworking machinery.....	Dec. 1976 = 100 .....	(NA)	(NA)	(NA)	(NA)	(NA)	101.3	114.6	133.6	151.8	151.9
Textile and leather machinery.....	1977 = 100 .....	(NA)	(NA)	(NA)	(NA)	(NA)	100.0	112.6	128.0	141.0	141.0
Electrical machinery.....	1975 = 100 .....	(NA)	92.1	104.1	100.0	97.9	101.3	108.3	120.4	125.5	124.7
Electric power machinery.....	1975 = 100 .....	(NA)	86.4	95.1	100.0	96.7	101.3	114.3	127.0	137.1	132.1
Telecommunication equip.....	1975 = 100 .....	(NA)	94.0	102.2	100.0	101.2	104.2	109.3	116.6	118.8	121.2
Bicycles and parts <sup>2</sup> (f.o.b.).....	1973 = 100 .....	(NA)	100.0	107.8	122.5	120.4	128.5	139.5	151.4	169.7	175.2
Clothing.....	Sept. 1977 = 100 .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	103.0	114.3	118.6	125.1
Footwear (c.i.f.).....	1975 = 100 .....	(NA)	72.7	91.6	100.0	107.6	113.4	125.9	153.1	164.6	168.5
Phono, tape recorders (f.o.b.).....	1971 = 100 .....	(NA)	117.1	114.6	108.7	107.5	110.1	123.9	130.2	123.0	126.4
Toys, indoor games (f.o.b.).....	1972 = 100 .....	(NA)	110.0	117.0	120.5	123.0	130.6	143.4	153.1	166.4	173.4

NA Not available. <sup>1</sup>Includes veneered panels. <sup>2</sup>Excludes motorized cycles.

## NO. 778. IMPORT PRICE INDEXES—SELECTED COMMODITIES: 1970 TO 1981

[As of June. Indexes are weighted by 1975 export values according to Schedule B classification system of U.S. Bureau of the Census. Prices used in these indexes were collected from a sample of U.S. manufacturers of exports and are f.o.b. (free on board) factory transaction prices, except as noted]

COMMODITY	Unit	1970	1974	1975	1976	1977	1978	1979	1980	1981
Raw cotton (f.a.s.).....	1973 = 100 .....	(NA)	122.7	91.3	131.8	131.5	118.3	131.0	147.2	161.4
Organic coal tar, cyclic chemical intermediates (f.a.s.).....	1974 = 100 .....	(NA)	100.0	86.4	87.4	93.4	90.1	119.7	139.4	144.2
Rubber manufactures.....	1967 = 100 .....	106.1	132.8	149.0	152.8	162.8	166.6	178.7	206.5	229.0
Wood manufactures.....	Sept. 1976 = 100 .....	(NA)	(NA)	(NA)	(NA)	108.1	115.0	124.8	174.4	160.6
Paper and paperboard.....	1978 = 100 .....	(NA)	(NA)	(NA)	(NA)	(NA)	100.0	111.7	127.7	139.5
Manufactures of metals.....	Sept. 1977 = 100 .....	(NA)	(NA)	(NA)	(NA)	(NA)	106.4	117.8	129.5	140.5
Machinery and transportation equipment <sup>1</sup> .....	1975 = 100 .....	(NA)	(NA)	100.0	106.8	113.2	122.2	132.4	147.8	162.5
Non-electrical machinery.....	1975 = 100 .....	(NA)	(NA)	100.0	107.3	115.0	123.6	133.6	148.7	166.6
Agricultural machinery.....	March 1979 = 100 .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	102.3	116.7	128.6
Office machines.....	1977 = 100 .....	(NA)	(NA)	(NA)	(NA)	100.0	101.8	103.0	108.9	115.7
Metalworking machinery.....	1967 = 100 .....	114.8	154.5	179.2	190.1	201.7	227.3	253.3	287.1	319.2
Textile machinery.....	1967 = 100 .....	109.7	149.3	158.6	174.6	187.3	203.2	212.1	245.4	256.3
Machines for special industries.....	Dec. 1978 = 100 .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	104.6	117.5	133.2
Heating and cooling equipment.....	1967 = 100 .....	110.4	131.4	154.2	160.7	169.7	179.8	191.6	207.8	227.3
Pumps and centrifuges.....	1967 = 100 .....	114.3	151.0	177.7	195.5	210.2	218.8	235.2	260.6	294.6
Forklift trucks.....	1970 = 100 .....	100.0	137.0	161.5	174.0	184.0	198.3	219.8	243.5	264.3
Powered tools <sup>2</sup> .....	1967 = 100 .....	108.8	138.0	158.9	173.9	192.0	208.0	227.8	249.1	275.2
Elec. power mach. excl. turbines.....	1967 = 100 .....	108.1	134.4	155.5	162.5	174.8	183.1	197.3	232.6	244.6
Electrical apparatus <sup>3</sup> .....	1967 = 100 .....	103.6	126.1	131.8	140.7	150.5	163.7	170.2	204.0	210.2
Telecommunications equipment.....	1967 = 100 .....	109.5	133.9	154.5	160.2	163.7	170.8	187.8	200.3	211.9
Electric household appliances.....	1967 = 100 .....	105.6	120.0	138.8	142.9	149.7	157.1	165.0	185.4	202.7
Lorries and trucks.....	1967 = 100 .....	110.2	140.9	166.5	183.2	193.0	221.8	241.0	265.4	306.2
Motor vehicle parts, new <sup>4</sup> .....	1967 = 100 .....	102.4	128.3	155.9	163.1	168.2	189.0	212.0	245.7	263.1
Aircraft, new <sup>5</sup> (f.a.s.).....	1973 = 100 .....	(NA)	106.4	116.2	126.6	137.5	147.6	156.2	166.1	188.0
Aircraft parts <sup>6</sup> .....	1967 = 100 .....	120.4	182.2	189.6	203.8	223.4	238.8	266.5	291.9	328.4

NA Not available. <sup>1</sup>Excludes military and commercial aircraft. <sup>2</sup>Includes tools for working metals, wood, plastics, and hand carving materials. <sup>3</sup>For making or breaking or for protecting electric circuits. <sup>4</sup>Nonmilitary, excludes parts for assembly; prices are f.a.s. (free alongside ship). Excludes motorcycle parts. <sup>5</sup>Excludes military, cargo, and passenger transport. Prices are f.a.f. (fly away factory). <sup>6</sup>Excludes rubber tires, engines, and electrical parts.

Source of tables 777 and 778: U.S. Bureau of Labor Statistics, *News*, quarterly.

# Consumer Price Indexes

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## NO. 779. CONSUMER PRICE INDEXES, BY MAJOR GROUPS: 1950 TO 1981

[1967=100. Annual averages of monthly figures, except as indicated. Prior to 1965, excludes Alaska and Hawaii. 1965-1977 indexes reflect buying patterns of urban wage earners and clerical workers in the 1960's, including single workers living alone as well as families of two or more persons; indexes for prior years apply only to families of two or more persons; beginning 1978, reflects buying patterns of all urban consumers in the 1970's. See text, p. 458. See also *Historical Statistics, Colonial Times to 1970*, series E 135-173.]

YEAR	All items	Food	Rent, residential	Home ownership	Home purchase	Fuel oil and coal <sup>1</sup>	Gas and electricity	Apparel and upkeep	TRANSPORTATION		Medicare	All commodities	All services
									Private	Public			
1950.....	72.1	74.5	70.4	(NA)	(NA)	72.7	81.2	79.0	72.5	48.9	53.7	78.8	58.7
1951.....	77.8	82.8	73.2	(NA)	(NA)	76.5	81.5	86.1	75.8	54.0	56.3	85.9	61.8
1952.....	79.5	84.3	76.2	(NA)	(NA)	78.0	82.6	85.3	80.8	57.5	59.3	87.0	64.5
1953.....	80.1	83.0	80.3	75.0	86.5	81.5	84.2	84.6	82.4	61.3	61.4	86.7	67.3
1954.....	80.5	82.8	83.2	76.3	87.1	81.2	85.3	84.5	80.3	65.5	63.4	85.9	69.5
1955.....	80.2	81.6	84.3	77.0	87.3	82.3	87.5	84.1	78.9	67.4	64.8	85.1	70.9
1956.....	81.4	82.2	85.9	78.3	87.6	85.9	88.4	85.8	80.1	70.0	67.2	85.9	72.7
1957.....	84.3	84.9	87.5	81.7	90.0	90.3	89.3	87.3	84.7	72.7	69.9	88.6	75.6
1958.....	86.6	88.5	89.1	83.5	91.3	88.7	92.4	87.5	87.4	76.1	73.2	90.6	78.5
1959.....	87.3	87.1	90.4	84.4	91.3	89.8	94.7	88.2	91.1	78.3	73.4	90.7	80.8
1960.....	88.7	88.0	91.7	86.3	91.8	89.2	98.6	89.6	90.6	81.0	79.1	91.5	83.5
1961.....	89.6	89.1	92.9	86.9	92.3	91.0	99.4	90.4	91.3	84.6	81.4	92.0	85.2
1962.....	90.6	89.9	94.0	87.9	93.2	91.5	99.4	90.9	93.0	87.4	83.5	92.8	86.8
1963.....	91.7	91.2	95.0	89.0	94.2	93.2	99.4	91.9	93.4	88.5	85.6	93.6	88.5
1964.....	92.9	92.4	95.9	90.8	95.7	92.7	99.4	92.7	94.7	90.1	87.3	94.6	90.2
1965.....	94.5	94.4	96.9	92.7	97.0	94.6	99.4	93.7	96.3	91.9	89.5	95.7	92.2
1966.....	97.2	99.1	98.2	96.3	98.6	97.0	99.6	96.1	97.5	95.2	93.4	98.2	95.8
1967.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	104.2	103.6	102.4	105.7	102.8	103.1	100.9	105.4	103.0	104.6	106.1	103.7	105.2
1969.....	109.8	108.9	105.7	116.0	109.5	105.6	102.8	111.5	106.5	112.7	113.4	108.4	112.5
1970.....	116.3	114.9	110.1	128.5	118.3	110.1	107.3	116.1	111.1	128.5	120.6	113.5	121.6
1971.....	121.3	118.4	115.2	133.7	124.8	117.5	114.7	119.8	116.6	137.7	128.4	117.4	128.4
1972.....	125.3	123.5	119.2	140.1	130.0	118.5	120.5	122.3	117.5	143.4	132.5	120.9	133.3
1973.....	133.1	141.4	124.3	146.7	132.7	136.0	126.4	126.8	145.8	137.7	129.9	139.1	
1974.....	147.7	161.7	130.6	163.2	142.7	214.6	145.8	136.2	136.6	148.0	150.5	145.5	152.1
1975.....	161.2	175.4	137.3	181.7	160.3	235.3	189.6	142.3	149.8	158.6	168.6	158.4	166.6
1976.....	170.5	180.8	144.7	191.7	168.4	250.8	189.0	147.6	164.6	174.2	184.7	165.2	180.4
1977.....	181.5	192.2	153.5	204.9	179.5	283.4	213.4	154.2	176.6	182.4	202.4	174.7	194.3
1978.....	195.4	211.4	164.0	227.2	196.7	298.3	232.6	159.6	185.0	187.8	219.4	187.1	210.9
1979.....	217.4	234.5	176.0	262.4	223.1	403.1	257.8	166.6	212.3	200.3	239.7	208.4	234.2
1980.....	246.8	254.6	191.6	314.0	254.3	556.0	301.8	178.4	249.2	251.6	265.9	233.9	270.3
1981, May.....	269.0	272.5	205.9	345.0	263.0	685.8	339.6	186.4	276.0	297.7	289.0	251.9	299.6

NA Not available. <sup>1</sup> Includes bottled gas.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review* and *Handbook of Labor Statistics*, annual.

## NO. 780. CONSUMER PRICE INDEXES—ANNUAL PERCENT CHANGE IN MAJOR GROUPS: 1970 TO 1981

[See headnote, table 779. See also table 781 for base figures. Minus sign (−) denotes decrease]

ALL ITEMS	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981 <sup>1</sup>
All items.....	5.9	4.3	3.3	6.2	11.0	9.1	5.8	6.5	7.7	11.3	13.5	9.8
Food.....	5.5	3.1	4.3	14.5	14.4	8.5	3.1	6.3	10.0	10.9	8.6	
Housing:												
Rent, residential.....	4.2	4.6	3.5	4.3	5.1	5.1	5.4	6.1	6.8	7.3	8.9	9.0
Home ownership.....	10.8	4.1	4.8	4.7	11.3	11.3	5.6	6.9	10.9	15.5	19.7	10.3
Home purchase.....	8.0	5.5	4.2	2.1	7.5	12.3	5.1	6.6	9.6	13.4	14.0	5.3
Mortgage interest.....	10.1	-8.9	-2.4	4.9	13.8	1.4	-8	-1.7	5.9	12.7	16.6	10.7
Fuel oil and coal.....	4.3	6.7	.9	14.8	57.8	9.7	6.6	13.0	5.3	35.1	37.9	23.3
Gas and electricity.....	4.4	6.9	5.1	4.9	15.3	16.3	11.4	12.9	9.0	10.8	17.1	13.9
Apparel and upkeep.....	4.1	3.2	2.1	3.7	7.4	4.5	3.7	4.5	3.5	4.4	7.1	5.0
Private transportation.....	4.3	5.0	.8	3.4	12.4	9.7	9.9	7.3	4.8	14.8	17.4	10.8
Automobiles, new.....	3.1	4.1	−9	.1	5.8	8.6	6.3	5.3	7.6	7.9	8.0	6.7
Gasoline.....	.9	.7	1.2	9.8	35.4	6.8	4.2	5.8	4.3	35.3	39.0	10.9
Auto insurance rates.....	13.7	11.4	−4	−1.8	.1	5.6	28.8	12.0	2.9	5.6	8.2	3.9
Public transportation.....	14.0	7.2	4.1	1.0	2.2	9.8	4.7	3.0	6.7	25.6		24.3
Intercity bus fare.....	7.0	12.1	5.6	4.0	10.5	15.5	5.9	13.5	7.5	8.2	14.3	13.6
Medical care.....	6.4	6.5	3.2	3.9	9.3	12.0	9.5	9.6	8.4	9.3	10.9	9.7
Entertainment.....	5.1	5.3	2.9	2.8	7.5	8.9	5.0	4.9	5.3	6.7	8.9	8.0
Personal care.....	3.6	3.2	2.6	4.5	9.7	9.8	6.5	6.5	6.5	7.6	8.8	8.9
All services.....	8.1	5.6	3.8	4.4	9.3	9.5	8.3	7.7	8.5	11.0	15.4	11.3
All commodities.....	4.7	3.4	3.0	7.4	12.0	8.9	4.3	5.8	7.1	11.4	12.2	8.9

<sup>1</sup> Change from May 1980–May 1981.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*.

## No. 781. CONSUMER PRICE INDEXES FOR SELECTED ITEMS AND GROUPS: 1970 TO 1981

[1967=100. Annual averages of monthly figures, except as indicated. See headnote, table 779]

COMMODITY	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981, May
All items .....	116.3	133.1	147.7	161.2	170.5	181.5	195.4	217.4	246.8	269.0
Food and beverages.....	114.7	139.5	158.7	172.1	177.4	188.0	206.3	228.5	248.0	265.4
Food.....	114.9	141.4	161.7	175.4	180.8	192.2	211.4	234.5	254.6	272.5
Food at home.....	113.7	141.4	162.4	175.8	179.5	190.2	210.2	232.9	251.5	267.7
Cereals and bakery products.....	108.9	127.7	168.1	184.8	180.6	188.5	199.9	221.0	246.4	270.0
Meats, poultry, fish, eggs.....	117.3	160.4	163.7	176.4	178.9	177.5	204.3	234.2	242.2	247.0
Dairy products.....	111.8	127.9	151.9	156.6	189.3	173.9	185.6	207.1	227.4	243.8
Fruits and vegetables.....	113.4	142.7	165.8	171.0	175.4	191.6	212.9	230.0	246.7	276.8
Sugar and sweets.....	115.1	128.3	195.2	246.2	218.2	229.4	257.5	277.6	341.3	367.1
Fats and oils.....	105.8	126.4	179.4	198.6	173.7	191.4	209.6	226.3	241.2	270.7
Nonalcoholic beverages.....	117.4	130.2	155.6	178.9	214.0	322.4	340.8	357.8	395.8	412.3
Other prepared foods.....	109.4	119.0	144.3	163.0	169.4	175.4	189.4	208.5	231.1	252.9
Food away from home.....	119.9	141.4	159.4	174.3	186.1	200.3	218.4	242.9	267.0	289.3
Alcoholic beverages.....	112.3	122.5	131.8	142.1	146.8	150.9	159.8	172.4	186.3	199.1
Housing <sup>1</sup> .....	118.2	133.7	148.8	164.5	174.6	186.5	202.8	227.6	263.3	288.5
Shelter.....	123.6	140.7	154.4	169.7	179.0	191.1	210.4	239.7	281.7	308.4
Rent.....	110.1	124.3	130.6	137.3	144.7	153.5	164.0	176.0	191.6	205.9
Home purchase.....	118.3	132.7	142.7	160.3	168.4	179.5	186.7	223.1	254.3	263.0
Mortgage interest rates.....	132.1	123.2	140.2	142.1	140.9	138.5	146.7	165.4	196.1	224.0
Property taxes.....	121.0	152.3	151.2	158.8	167.6	182.3	192.1	182.6	189.7	199.8
Maintenance and repairs.....	124.0	151.0	171.8	187.6	199.6	214.7	233.0	256.4	285.7	312.9
Fuel and other utilities.....	107.6	126.9	150.2	167.8	182.7	202.2	216.0	239.3	278.6	314.9
Fuel oil, coal, and bottled gas.....	110.1	136.0	214.6	235.3	250.8	283.4	298.3	403.1	556.0	685.8
Fuel oil.....	109.3	134.5	213.0	230.6	247.2	280.2	296.9	416.8	579.7	720.6
Gas (piped) and electricity.....	107.3	126.4	145.8	169.6	189.0	213.4	232.6	257.8	301.8	339.6
Electricity.....	108.2	124.9	147.5	167.0	177.6	189.3	203.4	219.1	253.4	281.9
Household furnishings and operation <sup>2</sup> .....	111.5	121.6	136.3	151.0	160.1	167.5	177.7	190.3	205.4	220.1
Household furnishings <sup>3</sup> .....	109.3	115.8	125.6	137.4	142.9	147.6	154.3	163.1	174.2	184.2
Apparel and upkeep <sup>3</sup> .....	118.1	126.8	136.2	142.3	147.6	154.2	159.6	166.6	178.4	186.4
Apparel commodities.....	116.5	127.1	136.1	141.2	145.8	151.6	155.7	161.1	171.1	177.2
Apparel commodities <sup>4</sup> .....	118.3	126.5	135.7	140.6	144.9	150.6	154.2	158.5	167.8	173.3
Men's and boys'.....	117.1	126.4	136.4	142.2	147.2	154.0	157.3	180.8	168.4	176.8
Women's and girls'.....	116.0	127.3	134.6	138.1	141.9	146.4	149.3	151.9	155.1	157.2
Footwear.....	117.7	130.2	138.1	144.2	149.9	156.9	163.8	176.7	190.3	201.0
Transportation.....	112.7	123.8	137.7	150.6	165.5	177.2	185.5	212.0	249.7	277.8
Private.....	111.1	121.5	136.6	149.8	164.6	176.8	185.0	212.3	249.2	276.0
Automobiles, new.....	107.6	111.1	117.5	127.6	135.7	142.9	153.8	166.0	179.3	190.9
Automobiles, used.....	104.3	117.6	122.6	146.4	167.9	182.8	186.5	201.0	208.1	245.2
Gasoline.....	105.6	118.1	159.9	170.8	177.9	188.2	196.3	265.6	369.1	416.5
Auto insurance rates.....	126.7	138.0	138.1	145.9	187.9	210.5	216.6	228.7	247.4	256.8
Public.....	128.5	144.8	148.0	158.6	174.2	182.4	187.8	200.3	251.6	297.7
Intracity mass transit.....	134.5	150.1	148.0	155.5	173.3	178.5	181.8	189.8	217.6	251.9
Intercity bus fare.....	118.4	145.7	161.0	186.0	196.9	223.5	240.2	260.0	297.1	333.4
Airline fares.....	118.5	134.7	145.9	159.0	172.2	182.0	190.6	205.8	284.8	348.8
Medical care.....	120.6	137.7	150.5	168.6	184.7	202.4	219.4	239.7	265.9	289.0
Prescription drugs.....	101.2	100.5	102.9	109.3	115.2	122.1	131.8	141.8	154.8	170.4
Physicians' services.....	121.4	138.2	150.9	169.4	188.5	206.0	223.1	243.6	269.3	295.5
Dental services.....	119.4	136.4	146.8	161.9	172.2	185.1	198.1	214.8	240.2	257.7
Hospital room.....	145.4	182.1	201.5	236.1	268.6	299.5	332.4	370.3	418.9	465.1
Entertainment.....	116.7	130.0	139.8	152.2	159.8	167.7	176.6	188.5	205.3	220.3
Entertainment commodities.....	113.5	126.3	137.1	151.2	160.4	168.8	177.7	189.3	208.2	225.0
Newspapers.....	119.4	135.8	155.4	174.5	182.1	192.2	200.4	213.7	238.2	264.1
Entertainment services.....	121.0	134.9	143.2	152.4	159.0	166.2	175.4	187.6	201.6	214.0
Other goods and services <sup>1</sup> .....	116.8	132.5	142.0	153.9	162.7	172.2	183.3	196.7	214.5	232.2
Tobacco products.....	121.2	137.0	143.8	153.9	160.5	168.2	177.3	187.9	202.6	218.2
Personal care.....	113.2	125.2	137.3	150.7	165.0	170.9	182.0	195.8	213.1	230.5
Toilet goods <sup>5</sup> .....	110.4	120.0	133.3	150.0	158.5	167.5	176.6	188.7	206.1	226.6
Personal care services.....	116.0	130.6	141.5	151.4	162.5	174.4	187.3	202.7	219.9	234.7
Personal and educational expenses.....	118.2	143.4	151.3	162.4	173.1	184.1	198.0	213.8	236.2	256.8
All services.....	121.6	139.1	152.1	166.6	180.4	194.3	210.9	234.2	270.3	299.6
Services less rent.....	123.7	141.8	156.0	171.9	186.8	201.6	219.4	244.9	285.1	317.4
Household services less rent <sup>1</sup> .....	126.4	146.2	165.1	183.6	197.2	212.4	234.7	267.2	319.1	360.4
Transportation services.....	123.1	136.9	141.9	152.7	174.3	188.4	197.4	212.8	242.6	266.6
Medical care services.....	124.2	144.3	159.1	179.1	197.1	216.7	235.4	258.3	287.4	311.7
Other services <sup>1</sup> .....	117.3	132.6	142.6	153.1	162.3	172.5	184.7	199.8	218.7	235.3
All commodities.....	113.5	129.8	145.5	158.4	165.2	174.7	187.1	208.4	233.9	251.9
Durable.....	111.8	121.9	130.8	145.5	154.3	162.2	173.9	191.1	210.4	223.9
Nondurable.....	114.0	132.8	151.0	163.2	169.2	178.3	192.0	215.9	245.0	265.8
All commodities less food.....	112.5	123.5	136.6	149.1	156.8	165.1	174.7	195.1	222.0	239.6
Nondurables less food.....	113.1	124.8	140.9	151.7	158.3	186.5	174.3	198.7	235.2	258.2
Nondurables less food, apparel.....	111.2	123.4	143.8	157.9	165.7	175.3	185.0	218.2	257.1	298.0

<sup>1</sup> Index series underwent a change in definition effective with the 1978 revision. Therefore, these data differ from those previously published.<sup>2</sup> Includes housekeeping supplies and services.<sup>3</sup> Includes apparel services.<sup>4</sup> Except footwear.<sup>5</sup> Includes personal care appliances.

NO. 782. ANNUAL PERCENT CHANGES IN CONSUMER PRICES, UNITED STATES AND OECD COUNTRIES:  
1965 TO 1980

[Covers member countries of Organisation for Economic Co-operation and Development (OECD). For consumer price indexes for OECD countries, see section 33]

COUNTRY	1965-1970, avg.	1970-1975, avg.	1975-1980, avg.	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980
United States.....	4.2	6.7	8.9	5.9	3.3	6.2	11.0	9.1	5.8	6.5	7.7	11.3	13.5
OECD, total.....	4.2	8.5	9.6	5.6	4.7	7.8	13.4	11.3	8.6	8.9	7.9	9.8	12.9
OECD, Europe.....	4.0	9.6	11.3	5.1	6.5	8.7	13.2	13.1	11.0	11.3	9.2	10.6	14.2
Australia.....	3.1	10.2	10.6	3.9	5.8	9.5	15.1	15.1	13.5	12.3	7.9	9.1	10.2
Canada.....	3.8	7.3	8.7	3.3	4.8	7.6	10.8	10.8	7.5	8.0	9.0	9.1	10.1
Japan.....	5.5	11.5	6.5	7.7	4.5	11.7	24.5	11.8	9.3	8.1	3.8	3.6	8.0
New Zealand.....	1.9	10.2	14.8	6.5	6.9	8.2	11.1	14.7	16.9	14.3	12.0	13.8	17.1
Austria.....	3.3	7.3	5.3	4.4	6.3	7.6	9.5	8.4	7.3	5.5	3.6	3.7	6.4
Belgium.....	3.5	8.4	6.4	3.9	5.5	7.0	12.7	12.8	9.2	7.1	4.5	4.5	6.6
Denmark.....	6.4	9.3	10.4	5.8	6.6	9.3	15.3	9.6	9.0	11.1	10.0	9.6	12.3
Finland.....	4.7	11.7	10.7	2.8	7.1	10.7	16.9	17.9	14.4	12.2	7.8	7.5	11.6
France.....	4.3	8.8	10.4	5.2	6.1	7.3	13.7	11.7	9.6	9.4	9.1	10.8	13.3
Germany, Fed. Rep. of.....	2.6	6.1	4.1	4.9	5.5	6.9	7.0	6.0	4.5	3.7	2.7	4.1	5.5
Greece.....	2.5	12.3	16.3	3.2	4.3	15.5	27.0	13.4	13.3	12.1	12.6	19.0	24.8
Ireland.....	5.3	13.3	14.1	8.2	8.7	11.4	17.0	20.9	18.0	13.6	7.6	13.3	18.2
Italy.....	3.0	11.3	16.6	5.0	5.7	10.8	19.1	17.0	16.8	18.4	12.1	14.8	21.9
Luxembourg.....	3.0	7.2	6.1	4.6	5.2	6.1	9.5	10.7	9.8	6.7	3.1	4.5	6.3
Netherlands.....	4.8	8.6	6.0	3.6	7.8	8.0	9.6	10.2	8.8	6.4	4.1	4.2	6.5
Norway.....	4.9	8.4	8.4	10.6	7.2	7.5	9.4	11.7	9.1	9.1	8.1	4.8	10.9
Portugal.....	<sup>1</sup> 5.5	15.1	<sup>2</sup> 21.2	6.4	10.7	12.9	25.1	15.3	21.1	23.7	14.2	25.9	<sup>3</sup> 16.6
Spain.....	5.1	12.1	18.6	5.7	8.3	11.4	15.7	16.9	17.6	24.5	19.8	15.7	15.4
Sweden.....	4.5	8.0	10.5	7.0	6.0	6.7	9.9	9.8	10.3	11.4	10.0	7.2	15.4
Switzerland.....	3.5	7.7	2.3	3.6	6.7	8.7	9.8	6.7	1.7	1.3	1.1	3.6	4.0
Turkey <sup>1</sup> .....	8.1	18.6	50.1	7.9	15.4	14.0	23.9	21.2	17.4	26.0	81.9	63.5	94.3
United Kingdom.....	4.6	13.0	14.4	6.4	7.1	9.2	16.0	24.2	16.5	15.8	8.3	13.4	18.0

<sup>1</sup> Excludes rent. <sup>2</sup> 1975-79.Source: Organisation for Economic Co-operation and Development, Paris, France, *Main Economic Indicators*, monthly.

## NO. 783. CONSUMER PRICE INDEXES FOR ALL URBAN CONSUMERS—U.S. REGIONS: 1969 TO 1980

[December 1977=100. For composition of regions, see fig. I, inside front cover]

REGION	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
All items:												
Northeast.....	69.1	63.0	66.3	68.9	73.3	81.4	87.9	92.9	98.1	104.3	114.7	129.4
North Central.....	59.8	63.2	65.5	67.5	71.5	79.3	86.2	91.2	97.4	105.3	118.2	134.0
South.....	58.4	61.5	64.0	66.0	70.3	78.8	86.5	91.3	97.4	105.4	117.4	132.9
West.....	58.7	61.7	63.8	65.9	69.7	77.1	85.1	90.2	96.9	105.1	117.3	134.6
Food:												
Northeast.....	55.5	59.0	61.4	63.8	72.5	83.1	88.8	92.8	98.0	107.2	118.0	128.6
North Central.....	55.9	58.7	60.2	62.8	72.2	82.8	88.6	92.0	97.9	108.0	119.8	130.0
South.....	55.1	57.9	59.4	62.1	71.8	80.9	88.9	92.0	98.0	107.9	120.1	130.4
West.....	55.7	58.2	59.8	62.5	71.0	81.1	88.3	90.2	97.1	108.0	120.2	130.2
Housing:												
Northeast.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	104.3	115.2	132.3
North Central.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	108.1	121.1	140.0
South.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	105.0	119.0	136.8
West.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	105.1	117.8	138.5
Population size class:												
Less than 75,000.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	104.9	116.6	131.3
75,000 to 384,999.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	105.4	117.8	133.1
385,000 to 1,249,999.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	105.2	117.8	134.0
1,250,000 to 4,000,000.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	105.1	117.2	133.5
Over 4,000,000.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	104.5	115.4	131.1
ANNUAL PERCENT CHANGE												
All items:												
Northeast.....	<sup>1</sup> 5.9	6.6	5.2	3.9	6.4	11.1	8.0	5.7	5.6	6.3	10.0	12.7
North Central.....	<sup>1</sup> 5.5	5.7	3.6	3.1	5.9	10.9	8.7	5.8	6.8	8.1	12.3	13.3
South.....	<sup>1</sup> 6.0	5.3	4.1	3.1	6.5	12.1	9.8	5.5	6.7	8.2	11.4	13.3
West.....	<sup>1</sup> 5.0	5.1	3.4	3.3	5.8	10.6	10.4	6.0	7.4	8.5	11.6	14.8

NA Not available. <sup>1</sup> Change from 1968.Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review* and in *Consumer Price Indexes*.

## NO. 784. CONSUMER PRICE INDEXES—SELECTED CITIES OR SMSA'S: 1960 TO 1980

[1967=100, except as noted. Annual averages of monthly figures. For coverage details, see headnote, table 779, and text, p. 458. Area is generally the standard metropolitan statistical area (SMSA), exclusive of farms. Los Angeles-Long Beach, Anaheim, Calif., is a combination of two SMSA's, and New York, N.Y.-Northeastern N.J. and Chicago, Ill.-Northwestern Ind. are the more extensive standard consolidated areas. Area definitions are those established by the Office of Management and Budget in 1973, except for Denver-Boulder, Colo. which does not include Douglas County. Definitions do not include revisions made since 1973.]

CITY/SMSA	ALL ITEMS									
	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978
<b>City average<sup>1,2</sup></b>	<b>88.7</b>	<b>94.5</b>	<b>116.3</b>	<b>125.3</b>	<b>133.1</b>	<b>147.7</b>	<b>161.2</b>	<b>170.5</b>	<b>181.5</b>	<b>195.4</b>
Anchorage, Alaska <sup>3</sup>	(NA)	(NA)	(NA)	115.9	120.8	133.9	152.3	164.1	175.0	187.5
Atlanta, Ga.	94.0	116.5	125.5	133.7	148.5	161.7	169.2	179.6	192.6	
Baltimore, Md.	88.1	94.4	117.0	126.3	134.9	152.4	165.2	173.9	185.9	199.6
Boston, Mass.	86.5	94.5	116.7	127.1	134.7	149.7	162.1	174.5	183.4	193.1
Buffalo, N.Y.	(NA)	94.2	116.1	126.6	134.8	149.5	161.8	170.6	181.7	193.0
Chicago, Ill.-Northwestern Ind.	90.7	94.7	116.3	124.3	132.0	146.1	157.6	165.1	176.6	190.7
Cincinnati, Ohio-Ky.-Ind.	90.0	94.4	115.7	124.7	132.1	146.3	160.3	170.1	182.2	199.1
Cleveland, Ohio	90.6	94.7	119.3	126.5	134.1	147.8	160.9	169.0	180.5	193.9
Dallas-Fort Worth, Tex.	(NA)	93.8	117.8	124.9	132.0	145.3	158.2	167.7	180.2	194.0
Denver-Boulder, Colo.	(NA)	(NA)	123.4	131.9	146.5	161.3	170.3	184.7	202.1	
Detroit, Mich.	88.2	92.6	117.4	126.2	134.5	149.0	160.1	168.8	180.4	194.1
Honolulu, Hawaii	(NA)	94.6	114.2	122.8	128.3	141.9	155.0	162.8	171.0	184.1
Houston, Tex.	88.2	94.8	116.8	125.2	132.3	147.8	164.9	177.3	190.2	208.2
Kansas City, Mo.-Kans.	88.9	95.5	115.8	124.0	130.3	144.2	157.9	165.5	178.3	191.8
Los Angeles-Long Beach-Anaheim, Calif.	88.5	95.7	114.3	122.3	129.2	142.5	157.6	168.0	179.8	192.8
Miami, Fla.	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	104.5
Milwaukee, Wis.	90.2	95.8	115.8	123.7	131.5	144.1	157.0	167.1	177.8	192.3
Minneapolis-St. Paul, Minn.-Wis.	89.0	94.5	117.5	125.5	133.0	148.3	160.9	170.9	183.0	199.7
New York, N.Y.-Northeast, N.J.	87.3	94.3	119.0	131.4	139.7	154.8	166.6	176.3	185.5	196.1
Northeast, Pa.	86.9	94.1	116.3	125.9	134.7	151.1	164.7	170.9	179.9	191.9
Philadelphia, Pa.-N.J.	88.4	94.7	117.8	127.0	135.5	151.6	164.2	172.4	183.5	194.3
Pittsburgh, Pa.	90.5	95.8	116.4	125.3	132.9	147.3	160.0	168.3	179.8	195.5
Portland, Oreg.-Wash.	87.1	94.6	113.2	123.2	127.3	142.8	156.5	167.0	180.2	198.4
St. Louis, Mo.-Ill.	87.7	94.1	115.2	122.3	129.3	142.2	156.1	165.1	176.6	191.5
San Diego, Calif.	(NA)	95.2	115.3	124.4	132.5	147.2	160.8	170.7	182.0	200.1
San Francisco-Oakland, Calif.	87.8	94.7	115.8	124.3	131.5	144.4	159.1	168.0	180.8	197.8
Seattle-Everett, Wash.	87.9	94.5	114.0	119.7	127.5	141.5	155.8	164.5	177.6	194.8
Washington, D.C.-Md.-Va.	87.7	94.1	117.6	126.9	135.0	150.0	161.6	171.1	183.0	197.0
CITY average <sup>1,2</sup>	1980									
	1979, all items	All items	Food and bever- ages	Hous- ing	Fuel and other utilities	Appar- el and up- keep	Trans- portation	Medi- cal care	Enter- tain- ment	
<b>City average<sup>1,2</sup></b>	<b>217.4</b>	<b>246.8</b>	<b>248.0</b>	<b>263.3</b>	<b>278.6</b>	<b>178.4</b>	<b>249.7</b>	<b>265.9</b>	<b>205.3</b>	
Anchorage, Alaska <sup>3</sup>	207.0	228.2	261.9	226.8	196.4	178.1	224.6	284.1	204.0	
Atlanta, Ga.	212.7	242.3	249.7	254.0	248.8	180.3	240.7	283.3	182.5	
Baltimore, Md.	218.2	250.3	249.3	274.1	275.7	196.5	240.2	265.5	200.5	
Boston, Mass.	212.9	240.0	238.3	246.9	318.0	192.4	269.9	255.5	207.9	
Buffalo, N.Y.	211.3	235.6	242.1	242.7	344.2	201.1	242.0	227.9	196.2	
Chicago, Ill.-Northwestern Ind.	214.6	245.5	251.1	255.7	246.0	157.9	253.5	272.9	221.1	
Cincinnati, Ohio-Ky.-Ind.	223.8	254.0	258.8	268.3	287.8	198.2	234.7	296.9	193.4	
Cleveland, Ohio	219.5	252.9	247.8	268.5	279.8	174.3	238.7	289.0	201.4	
Dallas-Fort Worth, Tex.	218.6	255.6	252.9	276.5	239.8	182.7	259.3	247.3	205.3	
Denver-Boulder, Colo.	233.5	261.5	231.5	304.9	252.2	178.4	248.3	248.4	218.7	
Detroit, Mich.	218.8	253.5	241.9	278.9	286.8	155.6	246.8	297.7	192.1	
Honolulu, Hawaii	204.6	228.5	250.6	216.8	243.1	183.9	223.6	258.6	201.5	
Houston, Tex.	235.7	265.4	265.1	293.5	305.7	211.1	237.5	290.0	206.3	
Kansas City, Mo.-Kans.	219.2	248.1	253.5	263.6	250.8	185.1	245.1	261.1	191.8	
Los Angeles-Long Beach-Anaheim, Calif.	213.7	247.3	240.7	268.0	230.7	169.3	255.2	275.6	183.4	
Miami <sup>4</sup>	114.8	130.8	130.1	133.4	117.7	116.4	135.5	130.5	115.1	
Milwaukee, Wis.	218.8	251.5	241.1	269.6	291.4	190.9	253.1	270.5	216.0	
Minneapolis-St. Paul, Minn.-Wis.	222.6	247.8	254.4	269.4	264.2	171.2	235.2	242.0	220.1	
New York, N.Y.-Northeast, N.J.	213.1	237.2	245.2	242.4	312.9	170.2	264.7	272.1	206.3	
Northeast, Pa.	210.7	237.1	239.9	251.3	349.7	165.9	244.2	267.7	199.7	
Philadelphia, Pa.-N.J.	213.6	241.4	250.6	249.8	290.9	170.7	256.1	282.2	195.2	
Pittsburgh, Pa.	217.3	247.2	249.9	268.6	250.1	170.1	259.8	265.0	201.1	
Portland, Oreg.-Wash.	225.4	255.4	243.6	281.2	318.7	172.1	239.4	268.1	200.3	
St. Louis, Mo.-Ill.	215.8	244.9	249.1	259.6	239.8	175.0	241.3	245.5	210.3	
San Diego, Calif.	233.1	268.5	248.6	314.7	231.1	176.8	246.7	253.8	198.8	
San Francisco-Oakland, Calif.	214.6	247.3	243.2	284.6	284.1	182.9	254.9	264.6	203.1	
Seattle-Everett, Wash.	216.3	252.1	235.8	281.2	263.4	181.9	235.3	260.6	203.8	
Washington, D.C.-Md.-Va.	218.6	244.7	260.5	249.3	260.4	185.4	248.4	274.8	193.7	

NA. Not available. <sup>1</sup> Based on 46 cities for 1960, 50 urban areas for 1965, 56 areas beginning 1970, and 85 areas beginning 1978. Includes medium and small sized cities, not shown separately. <sup>2</sup> Excludes Portland, Oreg., until 1976. For 1965, excludes Cincinnati, Ohio-Ky.; Houston, Tex.; Kansas City, Mo.-Kans.; Milwaukee, Wis.; Minneapolis-St. Paul, Minn.; and San Diego, Calif.

<sup>3</sup> October 1967=100. <sup>4</sup> November 1977=100.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, and in *Consumer Price Indexes, Detailed Report*.

## NO. 785. URBAN BUDGETS FOR A 4-PERSON FAMILY AND FOR A RETIRED COUPLE: 1970 TO 1980

[In dollars. 4-person family refers to annual living costs for a family comprising a 38-year-old employed husband, a wife not employed outside the home, an 8-year-old girl, and a 13-year-old boy. Retired couple refers to a retired husband 65 years old or over and his wife. The 3 budget levels reflect costs of different specified types and amounts of goods and services. Each level provides for average inventories of clothing, housefurnishings, major durables, and other equipment. Metropolitan areas are as defined in 1960-61. For a detailed description of geographic boundaries and definition, see U.S. Office of Management and Budget *Standard Metropolitan Statistical Areas, 1967*.]

ITEM	LOWER BUDGET <sup>1</sup>			INTERMEDIATE BUDGET			HIGHER BUDGET		
	Urban U.S.	Metro. areas	Non-metro. areas <sup>2</sup>	Urban U.S.	Metro. areas	Non-metro. areas <sup>2</sup>	Urban U.S.	Metro. areas	Non-metro. areas <sup>2</sup>
<b>4-PERSON FAMILY</b>									
Total cost, spring 1970.....	6,960	7,061	6,512	10,664	10,933	9,600	15,511	15,971	13,459
Total cost, autumn 1973.....	8,181	8,305	7,626	12,626	12,909	11,363	18,201	18,760	15,708
Total cost, autumn 1974.....	9,198	9,323	8,639	14,333	14,644	12,945	20,777	21,381	18,081
Total cost, autumn 1975.....	9,588	9,720	9,002	15,218	15,638	13,886	22,294	22,940	19,412
Total cost, autumn 1976.....	10,041	10,169	9,382	16,236	16,596	14,825	23,759	24,492	20,486
Total cost, autumn 1977.....	10,481	10,636	9,790	17,106	17,498	15,353	25,983	25,293	21,712
Total cost, autumn 1978.....	11,546	11,685	10,925	18,622	18,982	17,016	27,420	28,186	24,000
<b>Total cost, autumn 1979</b> .....	<b>12,585</b>	<b>12,722</b>	<b>11,972</b>	<b>20,517</b>	<b>20,935</b>	<b>18,651</b>	<b>30,317</b>	<b>31,187</b>	<b>26,432</b>
Cost of consumption, total.....	10,234	10,330	9,802	15,353	15,619	14,167	21,69	21,572	18,825
Food.....	3,911	3,960	3,693	5,044	5,112	4,739	6,360	6,493	5,764
Housing <sup>3</sup> .....	2,409	2,443	2,257	4,594	4,702	4,110	6,971	7,181	6,031
Transportation.....	1,004	953	1,230	1,851	1,862	1,803	2,411	2,458	2,200
Clothing and personal care.....	1,189	1,200	1,137	1,668	1,681	1,606	2,417	2,436	2,331
Medical care.....	1,171	1,202	1,032	1,176	1,207	1,039	1,227	1,258	1,085
Other family consumption.....	550	572	454	1,021	1,055	871	1,684	1,745	1,413
Other costs <sup>4</sup> .....	539	542	526	877	887	836	1,478	1,503	1,366
Social security and disability insurance payments.....	781	790	742	1,256	1,279	1,150	1,413	1,313	1,412
Personal income taxes.....	1,032	1,061	902	3,031	3,150	2,498	6,357	6,609	4,829
<b>Total cost, autumn 1980</b> .....	<b>14,044</b>	<b>14,203</b>	<b>13,331</b>	<b>23,134</b>	<b>23,597</b>	<b>21,070</b>	<b>34,409</b>	<b>35,391</b>	<b>30,024</b>
Cost of consumption, total.....	11,243	11,353	10,752	16,969	17,250	15,713	23,266	23,802	20,872
Food.....	4,321	4,372	4,096	5,571	5,642	5,257	7,024	7,165	6,393
Housing <sup>3</sup> .....	2,608	2,652	2,412	5,106	5,220	4,598	7,747	7,969	6,755
Transportation.....	1,160	1,103	1,413	2,116	2,126	2,071	2,751	2,801	2,528
Clothing and personal care.....	1,258	1,271	1,201	1,763	1,779	1,696	2,556	2,576	2,465
Medical care.....	1,298	1,334	1,136	1,303	1,339	1,143	1,359	1,398	1,194
Other family consumption.....	597	621	492	1,109	1,145	946	1,829	1,894	1,537
Other costs <sup>4</sup> .....	583	587	569	957	967	913	1,610	1,637	1,491
Social security and disability insurance payments.....	881	894	825	1,427	1,456	1,299	1,608	1,611	1,596
Personal income taxes.....	1,337	1,370	1,185	3,781	3,924	3,146	7,924	8,340	6,085
Percent change—									
Total cost, 1970-1975.....	37.8	37.7	38.2	43.6	43.0	44.6	43.7	43.6	44.2
Total cost, 1975-1980.....	46.5	46.1	48.1	51.0	50.9	51.7	54.3	54.3	54.7
<b>RETIRED COUPLE</b>									
Total cost, spring 1970.....	3,109	3,188	2,872	4,489	4,679	3,917	7,114	7,503	5,949
Total cost, autumn 1973.....	3,763	3,865	3,457	5,414	5,637	4,746	8,043	8,429	6,888
Total cost, autumn 1974.....	4,228	4,332	3,916	6,041	6,278	5,331	8,969	9,379	7,743
Total cost, autumn 1975.....	4,501	4,606	4,189	6,465	6,711	5,728	9,598	10,025	8,320
Total cost, autumn 1976.....	4,695	4,807	4,359	6,798	7,002	5,947	10,048	10,509	8,669
Total cost, autumn 1977.....	5,081	5,202	4,721	7,249	7,530	6,409	10,763	11,255	9,289
Total cost, autumn 1978.....	5,514	5,617	5,206	7,846	8,108	7,063	11,598	12,069	10,182
Total cost, autumn 1979.....	6,023	6,132	5,695	8,562	8,849	7,703	12,669	13,191	11,105
<b>Total cost, autumn 1980</b> .....	<b>6,644</b>	<b>6,762</b>	<b>6,291</b>	<b>9,434</b>	<b>9,747</b>	<b>8,498</b>	<b>13,923</b>	<b>14,487</b>	<b>12,233</b>
Cost of consumption, total.....	6,358	6,471	6,020	8,866	9,160	7,987	12,885	13,410	11,314
Food.....	2,082	2,098	2,033	2,772	2,808	2,663	3,482	3,535	3,321
Housing <sup>3</sup> .....	2,169	2,286	1,819	3,106	3,312	2,489	4,860	5,231	3,752
Transportation.....	487	442	625	950	963	910	1,748	1,789	1,623
Clothing and personal care.....	420	421	420	665	667	661	1,003	993	1,033
Medical care.....	944	951	926	950	956	933	956	961	940
Other family consumption.....	255	274	197	424	455	330	837	901	644
Other cost <sup>4</sup> .....	286	291	271	568	586	511	1,037	1,077	919
Percent change—									
Total cost, 1970-1975.....	44.8	44.5	45.9	44.0	43.4	46.2	34.9	33.6	39.9
Total cost, 1975-1980.....	47.6	46.8	50.2	45.9	45.2	48.4	45.1	44.5	47.0

<sup>1</sup> Not intended to represent a minimum or subsistence level. <sup>2</sup> Places with 2,500-50,000 population in 1960. <sup>3</sup> Includes the weighted average cost of renter and homeowner shelter, housefurnishings, and household operations. Four-person families in the lower budget are assumed to be renters. A small allowance for lodging away from home city is included in the higher budget.

<sup>4</sup> Includes gifts, contributions, life insurance, and occupational expenses. <sup>5</sup> Includes gifts and contributions and, at the higher level, an allowance for life insurance.

Source: U.S. Bureau of Labor Statistics, *3 Budgets for an Urban Family of Four Persons, 1969-70; Autumn Urban Family Budgets and Comparative Indexes for Selected Urban Areas*, annual (Supplements to Bulletin 1570-5); *3 Budgets for a Retired Couple in Urban Areas of the United States, 1969-70*; and *3 Budgets for a Retired Couple, Autumn*, annual. (Supplements to Bulletin 1570-6).

**NO. 786. URBAN INTERMEDIATE BUDGET FOR A 4-PERSON FAMILY AND A RETIRED COUPLE—U.S.  
COST, 1967 TO 1980, AND FOR SELECTED METROPOLITAN AREAS, 1980**

[In dollars, except percent. See headnote, table 785]

AREA	COST FOR 4-PERSON FAMILY					COST FOR RETIRED COUPLE				
	Total <sup>1</sup>	Food	Hous-ing <sup>2</sup>	Trans-portation	Medi-cal care	Total <sup>1</sup>	Food	Hous-ing <sup>2</sup>	Trans-portation	Medi-cal care
1967, urban U.S.	9,076	2,105	2,230	872	477	3,857	1,048	1,330	382	296
Percent	100.0	23.2	24.6	9.6	5.3	100.0	27.2	34.5	9.8	7.7
1970, urban U.S.	10,684	2,452	2,501	912	584	4,489	1,220	1,554	413	370
Percent	100.0	23.0	23.5	8.6	5.3	100.0	27.2	34.6	9.2	8.2
1975, urban U.S.	15,318	3,827	3,533	1,279	822	6,465	1,912	2,192	577	555
Percent	100.0	25.0	23.1	8.3	5.4	100.0	29.6	33.9	8.9	8.8
1976, urban U.S.	16,238	3,859	3,843	1,403	900	6,738	1,914	2,334	629	574
Percent	100.0	23.8	23.7	8.6	5.5	100.0	28.4	34.6	9.3	8.5
1977, urban U.S.	17,108	4,098	4,016	1,472	985	7,249	2,035	2,518	658	680
Percent	100.0	24.0	23.5	8.6	5.8	100.0	28.1	34.7	9.1	9.4
1978, urban U.S.	18,622	4,609	4,182	1,572	1,070	7,846	2,299	2,641	701	769
Percent	100.0	24.8	22.5	8.4	5.7	100.0	29.3	33.7	8.9	9.8
1979, urban U.S.	20,517	5,044	4,594	1,851	1,176	8,562	2,507	2,862	820	842
Percent	100.0	24.6	22.4	9.0	5.7	100.0	29.3	33.4	9.6	9.8
Percent change, urban U.S.:										
1967-1970	17.5	16.5	12.2	4.6	18.2	16.4	16.4	16.8	8.1	25.0
1970-1975	49.6	56.1	41.3	40.2	45.7	44.0	56.7	41.1	39.7	50.0
1975-1980	51.0	45.6	44.5	65.4	58.5	45.9	45.0	42.0	64.8	71.2
<b>1980</b>										
Urban U.S., total <sup>3</sup>	23,134	5,571	5,106	2,116	1,303	9,434	2,772	3,106	950	950
Percent	100.0	24.1	22.1	9.1	5.6	100.0	29.4	32.9	10.1	10.1
Nonmetropolitan areas <sup>4</sup>	21,070	5,257	4,598	2,071	1,143	8,498	2,663	2,489	910	933
Metropolitan areas	23,597	5,642	5,220	2,126	1,339	9,747	2,808	3,912	963	956
Atlanta, Ga.	21,131	5,291	4,197	2,148	1,159	8,759	2,648	2,442	1,079	933
Baltimore, Md.	23,389	5,386	5,103	2,054	1,241	9,348	2,677	3,037	1,023	924
Boston, Mass.	27,029	5,818	6,657	2,472	1,197	11,051	2,926	4,377	993	920
Buffalo, N.Y.	23,995	5,676	5,075	2,256	1,073	9,991	2,867	3,401	1,093	890
Chicago, Ill.-Northwestern Ind.	23,387	5,633	5,263	2,199	1,428	9,290	2,782	2,995	870	969
Cincinnati, Ohio-Ky.-Ind.	22,681	5,673	4,708	2,090	1,244	9,240	2,826	2,824	949	948
Cleveland, Ohio	23,429	5,605	5,282	2,098	1,299	9,832	2,789	3,317	1,016	913
Dallas, Tex.	20,766	5,304	4,330	2,193	1,434	9,001	2,608	2,726	1,063	981
Denver, Colo.	22,813	5,212	4,941	2,182	1,209	9,238	2,596	2,881	1,041	929
Detroit, Mich.	23,168	5,520	5,230	2,042	1,366	9,553	2,733	3,182	1,017	942
Honolulu, Hawaii	28,488	6,952	5,863	2,181	1,400	10,979	3,560	3,427	1,168	967
Houston, Tex.	21,572	5,484	4,478	2,111	1,526	9,240	2,722	2,826	985	1,011
Kansas City, Mo.-Kans.	22,504	5,528	4,541	2,240	1,293	9,320	2,738	2,814	1,031	983
Los Angeles-Long Beach, Calif.	22,500	5,411	4,762	2,200	1,683	9,383	2,682	2,933	1,132	1,037
Milwaukee, Wis.	24,028	5,391	5,313	2,144	1,285	9,698	2,682	3,283	1,046	949
Minneapolis-St. Paul, Minn.	23,630	5,510	4,903	2,084	1,111	9,461	2,728	3,115	1,007	896
New York, N.Y.-Northeastern N.J.	26,749	6,187	6,227	1,944	1,324	10,700	3,099	4,227	678	948
Philadelphia, Pa.-N.J.	24,364	6,227	5,276	2,058	1,386	9,835	3,093	3,395	847	951
Pittsburgh, Pa.	22,492	5,741	4,509	2,198	1,192	8,650	2,881	3,078	1,083	944
St. Louis, Mo.-Ill.	22,248	5,828	4,457	2,223	1,170	9,417	2,898	2,892	1,075	920
San Diego, Calif.	22,727	5,345	5,072	2,141	1,554	9,107	2,647	2,802	1,061	1,001
San Francisco-Oakland, Calif.	24,704	5,645	5,534	2,286	1,514	10,108	2,794	3,280	1,176	1,026
Seattle-Everett, Wash.	23,992	5,550	5,534	2,136	1,450	10,311	2,783	3,652	1,050	983
Washington, D.C.-Md.-Va.	25,203	5,864	5,430	2,112	1,354	10,269	2,933	3,479	1,047	986

<sup>1</sup> Includes clothing and personal care, other family consumption, gifts and contributions, personal income taxes (except for retired couple in 1975, 1976, 1977, 1978, 1979, and 1980), and, for 4-person families, also basic life insurance, occupational expenses, and social security; not shown separately. <sup>2</sup> Includes weighted average cost of renter and homeowner shelter, housefurnishings, and household operations. <sup>3</sup> Procedures used in updating the budgets to 1979 and 1980 differ from procedures used in prior years. As a result of the revision of the Consumer Price Index (CPI) program in January 1978, individual area price changes from autumn 1978 to autumn 1979 and autumn 1979 to autumn 1980 were no longer available for 15 of the 39 family budget metropolitan areas. The urban U.S. average includes estimates for these areas, however, using price data for the appropriate region/population size classes which are available from the CPI. <sup>4</sup> Places with population of 2,500-50,000 in 1960.

Source: U.S. Bureau of Labor Statistics, *Autumn Urban Family Budget and Comparative Indexes for Selected Urban Areas*, annual (Suppl. to Bulletin 1570-5); and *3 Budgets for a Retired Couple, Autumn*, annual. (Suppl. to Bulletin 1570-6.)

**NO. 787. ANNUAL BUDGET COSTS FOR A 4-PERSON FAMILY—PERCENT DISTRIBUTION, 1970 TO 1980, AND ANNUAL PERCENT CHANGE, 1967 TO 1980**

[As of autumn. See headnote, table 785. For definition of average annual percent change, see Guide to Tabular Presentation]

ITEM	LOWER BUDGET			INTERMEDIATE BUDGET			HIGHER BUDGET		
	1970	1975	1980	1970	1975	1980	1970	1975	1980
<b>PERCENT DISTRIBUTION</b>									
<b>Total cost</b> .....	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Total consumption.....	79.8	81.3	80.1	76.9	76.5	73.4	73.2	72.4	67.6
Food .....	27.3	30.8	30.8	22.9	25.0	24.1	19.9	21.6	20.4
Housing .....	20.5	19.4	18.6	23.4	23.1	22.1	24.4	24.0	22.5
Transportation.....	7.3	7.3	8.3	8.6	8.3	9.1	7.6	7.4	8.0
Clothing, personal care.....	11.6	10.6	9.0	10.7	9.4	7.6	10.7	9.3	7.4
Medical care.....	8.1	8.5	9.2	5.3	5.4	5.6	3.8	3.8	3.9
Other .....	5.0	4.7	4.3	6.0	5.4	4.8	6.8	6.1	5.3
Other items.....	4.9	4.5	4.2	5.1	4.6	4.1	5.8	5.3	4.7
Social security.....	5.0	6.0	6.3	3.6	5.4	6.2	2.5	3.8	4.7
Personal income taxes .....	10.3	8.1	9.5	14.4	13.4	16.3	18.5	18.5	23.0
<b>AVERAGE ANNUAL PERCENT CHANGE</b>									
	<b>1967-1970</b>	<b>1970-1975</b>	<b>1975-1980</b>	<b>1967-1970</b>	<b>1970-1975</b>	<b>1975-1980</b>	<b>1967-1970</b>	<b>1970-1975</b>	<b>1975-1980</b>
<b>Total cost</b> .....	<b>5.6</b>	<b>6.6</b>	<b>7.9</b>	<b>5.5</b>	<b>7.5</b>	<b>8.6</b>	<b>5.9</b>	<b>7.5</b>	<b>9.1</b>
Total consumption.....	4.5	7.0	7.6	4.4	7.4	7.7	4.4	7.3	7.6
Food .....	5.0	9.2	7.9	5.2	9.3	7.8	6.1	9.3	7.8
Housing .....	3.1	5.4	7.0	3.9	7.2	7.6	4.1	7.3	7.7
Transportation.....	4.2	6.8	10.6	1.5	7.0	10.6	1.6	7.0	10.7
Clothing, personal care.....	4.9	4.8	4.3	4.9	4.7	4.2	4.6	4.7	4.2
Medical care.....	5.8	7.8	9.7	5.7	7.8	9.7	5.8	7.8	9.7
Other .....	5.4	5.3	6.0	5.0	5.4	5.9	3.0	5.4	5.9
Other items.....	2.9	4.9	6.0	3.2	5.4	6.4	3.5	5.5	6.4
Social security.....	9.2	10.8	8.8	8.5	16.6	11.3	8.5	16.8	13.8
Personal Income taxes .....	15.0	1.7	11.4	13.0	6.1	13.0	13.5	7.5	13.9

Source: U.S. Bureau of Labor Statistics, *3 Budgets for an Urban Family of Four Persons*, press releases, and Bulletin No. 1570-5.

**NO. 788. URBAN INTERMEDIATE BUDGET FOR SELECTED METROPOLITAN AREAS, BY SIZE AND TYPE OF UNIT: 1980**

[See headnote, table 785, and text, p. 458. Includes only the cost of goods and services for family consumption. Excludes social security and disability insurance payments, personal income taxes, gifts, contributions, life insurance, and occupational expenses]

STANDARD METROPOLITAN STATISTICAL AREA (Based on 1980 census definition)	Single person under 35 years	HUSBAND AND WIFE UNDER 35 YEARS OLD			HUSBAND AND WIFE 35-54 YEARS OLD		
		No children	1 child under 6 years	2 children under 6 years	1 child, 6-15 years	2 children, oldest 6-15 yr.	3 children, oldest 6- 15 yr.
Urban U.S. ....	\$5,940	\$8,310	\$10,520	\$12,220	\$13,910	\$16,989	\$19,680
Atlanta, Ga.....	5,520	7,730	9,780	11,360	12,930	15,772	18,300
Baltimore, Md.....	5,850	8,200	10,370	12,040	13,720	16,726	19,400
Boston, Mass.....	6,730	9,430	11,930	13,850	15,780	19,240	22,320
Buffalo, N.Y.....	5,990	8,390	10,610	12,330	14,040	17,120	19,860
Chicago, Ill.-Northwestern Ind.....	6,100	8,540	10,800	12,550	14,290	17,424	20,210
Cincinnati, Ohio-Ky.-Ind.....	5,860	8,200	10,370	12,050	13,720	16,732	19,410
Cleveland, Ohio.....	6,090	8,530	10,790	12,530	14,270	17,408	20,190
Dallas, Tex.....	5,640	7,890	9,990	11,600	13,210	16,107	18,680
Detroit, Mich.....	5,950	8,330	10,540	12,240	13,940	17,000	19,720
Honolulu, Hawaii.....	6,840	9,580	12,120	14,070	16,030	19,546	22,670
Houston, Tex.....	5,830	8,160	10,320	11,990	13,660	16,653	19,320
Kansas City, Mo.-Kans.....	5,840	8,170	10,340	12,010	13,670	16,676	19,340
Los Angeles-Long Beach, Calif.....	5,870	8,210	10,390	12,070	13,750	16,763	19,450
Milwaukee, Wis.....	6,000	8,400	10,630	12,350	14,060	17,150	19,890
Minneapolis-St. Paul, Minn.....	5,800	8,120	10,280	11,930	13,590	16,576	19,230
New York, N.Y.-Northeastern N.J.....	6,500	9,090	11,510	13,360	15,220	18,561	21,530
Philadelphia, Pa.-N.J.....	6,100	8,530	10,800	12,540	14,280	17,417	20,200
Pittsburgh, Pa.....	5,770	8,080	10,230	11,870	13,520	16,492	19,190
St. Louis, Mo.-Ill.....	5,780	8,090	10,240	11,890	13,540	16,518	19,160
San Diego, Calif.....	5,920	8,290	10,490	12,180	13,870	16,914	19,620
San Francisco-Oakland, Calif.....	6,340	8,880	11,230	13,040	14,860	18,117	21,020
Seattle-Everett, Wash.....	6,260	8,770	11,080	12,880	14,670	17,888	20,750
Washington, D.C.-Md.-Va.....	6,220	8,710	11,020	12,790	14,570	17,770	20,610

Source: U.S. Bureau of Labor Statistics, *Revised Equivalence Scale: For Estimating Equivalent Incomes or Budget Costs, by Family Type*. (1570-2).

## Prices

## NO. 789. RETAIL PRICE INDEXES OF FOOD—SELECTED AREAS: 1970 TO 1981

[1967 = 100. See headnote, table 784 and text, p. 458 regarding SMSA's]

SMSA	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981, May
Total food <sup>1,2</sup>	114.9	141.4	161.7	175.4	180.8	192.2	211.4	234.5	254.6	272.5
Anchorage, Alaska	(NA)	124.4	145.7	167.6	174.2	185.8	204.1	227.2	242.2	250.4
Atlanta, Ga.	114.8	144.0	165.6	181.8	185.8	196.4	215.5	238.2	257.3	276.8
Baltimore, Md.	117.4	143.8	164.4	178.2	184.3	195.9	215.2	235.8	254.9	270.2
Boston, Mass.	114.9	140.1	161.3	175.2	183.1	190.9	206.7	229.0	245.3	259.5
Buffalo, N.Y.	116.2	141.0	160.1	173.6	178.6	189.2	206.1	226.8	246.1	268.1
Chicago, Ill.—Northwestern Ind.	115.4	142.7	161.6	175.1	180.1	191.0	213.5	236.8	258.2	270.3
Cincinnati, Ohio-Ky.	114.9	142.9	163.6	177.4	184.0	197.8	219.1	244.4	265.3	286.4
Cleveland, Ohio	117.5	142.1	161.1	175.8	185.9	196.1	213.6	236.3	254.2	272.2
Dallas, Tex.	114.8	140.1	157.9	172.5	176.9	191.3	209.4	235.8	257.7	278.1
Denver-Boulder, Colo.	(NA)	136.9	155.6	171.4	175.8	190.8	208.0	230.1	238.0	256.9
Detroit, Mich.	115.2	143.6	164.1	171.6	175.6	186.4	205.5	226.5	245.2	262.7
Honolulu, Hawaii	114.1	135.2	158.7	176.7	183.0	193.0	212.8	239.8	259.9	284.8
Houston, Tex.	115.5	143.3	164.9	181.2	187.6	195.8	218.7	248.3	270.6	293.9
Kansas City, Mo.-Kans.	116.1	141.4	162.5	177.8	180.8	193.0	215.4	239.2	259.8	276.6
Los Angeles-Long Beach, Calif.	112.2	136.5	156.3	170.1	173.5	185.8	206.7	229.5	248.7	267.6
Milwaukee, Wis.	113.1	138.4	158.1	171.9	180.0	189.9	210.5	234.9	250.7	272.9
Minneapolis-St. Paul, Minn.	116.5	142.0	163.6	178.9	186.6	196.7	217.3	244.4	264.8	277.3
New York, N.Y.—Northeast, N.J.	117.9	145.4	166.1	179.6	185.4	195.4	212.8	232.6	253.9	275.1
Northeast, Pennsylvania	115.7	141.9	161.7	172.9	178.4	189.5	207.2	228.1	248.1	261.9
Philadelphia, Pa.-N.J.	115.8	142.7	165.2	179.6	186.2	198.4	218.2	239.7	259.1	275.8
Pittsburgh, Pa.	115.6	141.7	164.2	177.4	181.1	193.6	212.6	233.5	254.5	272.3
Portland, Ore.	110.9	133.7	154.5	168.4	177.3	188.8	207.7	233.6	250.3	269.0
St. Louis, Mo.-Ill.	115.4	140.2	159.7	174.3	180.5	192.6	210.4	234.7	252.3	268.4
San Diego, Calif.	113.6	139.6	159.6	173.7	179.2	190.5	212.2	236.0	257.8	273.8
San Francisco-Oakland, Calif.	112.5	138.0	155.6	171.2	173.9	187.4	207.4	233.1	250.4	267.7
Seattle, Wash.	113.5	138.3	155.8	169.6	175.0	187.9	204.1	225.4	243.2	261.1
Washington, D.C.-Md.-Va.	117.3	145.5	166.9	180.7	186.5	199.7	219.8	245.7	264.1	271.9

NA Not available. <sup>1</sup>1970 to 1977 based on 56 areas; beginning 1978, 85 areas. <sup>2</sup>Excludes Portland, Oregon through 1978.

<sup>3</sup>April data.Source: U.S. Bureau of Labor Statistics, *The Consumer Price Index, Detailed Report*, monthly.

## NO. 790. WEEKLY FOOD COST FOR FAMILIES, BY TYPE OF FAMILY: 1975 TO 1981

[In dollars. Based on moderate-cost food plan; assumes all meals are eaten at home or taken from home]

URBAN FAMILY TYPE	1975, Dec.	1976, Dec.	1977, Dec.	1978, Dec.	1979, Dec.	1980		1981	
						May	Dec.	March	May
Couple, 20-54 years old	37.10	36.60	39.70	43.20	47.50	48.90	52.00	53.00	52.80
Couple, 55 years and over	32.40	32.10	35.00	37.90	41.80	43.10	45.90	47.00	46.50
Couple with children:									
1 child, 1-5 years old	44.90	44.40	47.80	52.10	57.30	59.10	62.90	64.20	63.90
1 child, 15-19 years old	53.50	52.80	56.70	62.00	68.00	70.20	74.80	76.30	76.00
2 children, 1-5 years old	51.80	51.30	54.90	60.00	65.90	68.10	72.60	74.10	73.80
2 children, 6-11 years old	63.00	62.10	66.60	72.70	79.90	82.80	88.10	90.10	89.70
2 children, 12-19 years old	67.20	66.30	71.00	77.60	85.20	88.10	93.80	96.00	95.60

Source: U.S. Dept. of Agriculture, Science and Education Administration. Through June 1978, *Food and Home Notes*, weekly; thereafter, *News Feature*, weekly.

## NO. 791. WEEKLY FOOD COST FOR FAMILIES, BY COST LEVEL AND REGION: 1981

[In dollars. As of March. Based on costs of food plans as estimated by using average price per pound of each food group paid by urban survey families at selected food cost levels in 1965-66. Prices adjusted to March 1981 level. For composition of regions, see fig. 1, inside front cover]

REGION AND URBAN FAMILY TYPE	Low level	Moderate level	Liberal level	REGION AND URBAN FAMILY TYPE	Low level	Moderate level	Liberal level
<b>Northeast:</b>				<b>South:</b>			
Couple, 20-54 years old	44.50	57.20	69.00	Couple, 20-54 years old	42.60	53.00	62.90
Couple, 55 years and over	39.50	50.30	60.50	Couple, 55 years and over	37.70	46.40	55.00
4-person families:				4-person families:			
With preschool children <sup>1</sup>	62.30	79.60	96.00	With preschool children <sup>1</sup>	59.50	73.70	87.50
With school children <sup>2</sup>	75.50	96.80	116.70	With school children <sup>2</sup>	72.10	89.70	106.60
<b>North Central:</b>				<b>West:</b>			
Couple, 20-54 years old	43.70	53.70	64.90	Couple, 20-54 years old	43.00	53.90	65.00
Couple, 55 years and over	38.90	47.40	57.30	Couple, 55 years and over	38.40	47.40	57.20
4-person families:				4-person families:			
With preschool children <sup>1</sup>	61.50	75.30	90.80	With preschool children <sup>1</sup>	60.70	75.50	91.30
With school children <sup>2</sup>	74.50	91.60	110.60	With school children <sup>2</sup>	73.70	92.00	111.30

<sup>1</sup>Couple, 20-54 years; children, 1-2 and 3-5 years. <sup>2</sup>Couple, 20-54 years; children, 6-8 and 9-11 years.Source: U.S. Dept. of Agriculture, Science and Education Administration, *Family Economics Review*, Summer 1981.

## NO. 792. INDEXES OF RESIDENTIAL RENTS IN SELECTED SMSA'S: 1970 TO 1981

[1967=100. Annual averages of monthly figures, except as indicated]

SMSA <sup>1</sup>	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981, May
Anchorage, Alaska (Oct. 1967=100).....	(NA)	112.1	114.4	125.5	143.2	152.9	160.4	161.1	158.3	165.9
Atlanta, Ga.....	109.9	120.3	125.1	129.0	131.2	135.3	140.0	152.3	168.2	186.7
Baltimore, Md.....	106.9	116.1	121.3	127.4	135.5	143.9	154.6	163.5	173.8	187.7
Boston, Mass.....	115.4	136.2	142.9	149.8	156.7	166.2	174.2	183.0	198.8	218.7
Buffalo, N.Y.....	109.3	126.3	123.2	140.8	149.3	156.8	162.7	169.2	177.2	184.1
Chicago, Ill.-Northwestern Ind.....	107.6	121.6	127.6	132.8	137.7	142.7	150.6	160.8	172.2	184.2
Cincinnati, Ohio-Ky.....	105.7	111.6	115.4	120.1	124.0	133.4	142.9	155.2	169.1	184.9
Cleveland, Ohio.....	107.5	115.0	118.6	123.7	130.8	139.8	149.7	158.9	170.9	176.0
Dallas, Tex.....	110.1	113.4	116.9	122.1	129.2	140.3	155.5	172.6	191.2	209.6
Denver-Boulder, Colo.....	(NA)	121.5	127.3	130.3	135.3	139.7	153.2	168.8	186.8	201.2
Detroit, Mich.....	111.5	124.2	129.8	135.9	141.5	150.8	162.6	176.5	194.1	205.0
Honolulu, Hawaii.....	118.1	133.1	142.8	150.4	156.8	163.5	174.1	187.3	206.1	220.2
Houston, Tex.....	106.9	112.3	116.1	125.3	140.1	155.8	163.0	172.1	182.8	191.7
Kansas City, Mo.-Kans.....	106.3	112.6	115.3	119.2	124.0	131.3	139.6	149.2	160.3	169.8
Los Angeles-Long Beach, Calif.....	111.9	121.9	128.0	134.8	144.3	157.2	171.7	188.5	211.3	232.8
Milwaukee, Wis.....	109.8	122.7	126.8	136.9	144.1	152.5	159.6	168.7	179.6	193.3
Minneapolis-St. Paul, Minn.....	114.2	122.8	126.9	132.8	141.5	150.6	160.5	175.8	185.2	215.9
New York, N.Y.-Northeast N.J.....	110.9	136.6	145.0	153.7	162.5	171.4	180.1	188.7	202.5	214.5
Northeast, Pennsylvania.....	113.1	133.1	143.2	155.9	168.3	178.2	186.2	207.2	220.7	227.4
Philadelphia, Pa.-N.J.....	112.5	129.6	136.7	146.4	155.7	168.1	174.4	182.4	194.5	206.9
Pittsburgh, Pa.....	109.0	119.7	123.6	129.0	137.0	149.2	162.7	173.9	185.3	194.3
Portland, Oreg.-Wash.....	109.3	121.5	127.9	135.8	145.2	157.9	172.6	188.5	202.6	215.7
St. Louis, Mo.-Ill.....	105.6	110.2	112.7	116.1	120.4	127.0	136.8	149.0	165.6	177.6
San Diego, Calif.....	123.6	136.8	141.8	148.7	158.3	170.2	185.6	205.5	225.3	243.4
San Francisco-Oakland, Calif.....	119.3	133.2	136.7	144.8	153.3	164.7	177.3	190.3	214.3	234.7
Seattle, Wash.....	109.1	108.5	118.1	130.8	141.1	153.6	168.0	195.1	226.1	240.7
Washington, D.C.-Md.-Va.....	109.4	124.3	131.6	140.3	149.0	158.4	168.0	181.2	197.2	213.4

NA Not available.

<sup>1</sup> See headnote, table 784 and text, page 458.<sup>2</sup> April data.

## NO. 793. CONSUMER PRICE INDEXES OF FUELS AND UTILITIES: 1965 TO 1981

[1967=100. Represents all urban consumers. A therm=100,000 Btu's. Annual averages for cities combined. See text, p. 458. See also *Historical Statistics, Colonial Times to 1970*, series E 203-211]

ITEM	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981, May
Consumer price index, all items.....	94.5	116.3	133.1	147.7	161.2	170.5	181.5	195.4	217.4	246.8	269.0
Fuels and other utilities.....	98.3	107.6	126.9	150.2	167.8	182.7	202.2	216.0	239.3	278.6	314.9
Gas (piped) and electricity.....	99.4	107.3	126.4	145.5	169.6	189.4	213.4	232.6	257.8	301.8	339.6
Utility (piped) gas.....	99.6	108.5	127.9	143.0	172.5	201.4	239.3	263.1	305.3	363.9	416.5
Gasoline, regular and premium.....	94.9	105.6	118.1	159.5	170.8	177.9	188.2	196.3	265.6	369.1	416.5
Electricity (composite).....	99.1	106.2	124.9	147.5	167.0	177.6	189.3	203.4	219.1	253.4	281.9
Fuel oil, coal, and bottled gas.....	94.6	110.1	136.0	214.8	235.3	250.8	283.4	298.3	403.1	556.0	685.8
Fuel oil No. 2.....	94.4	103.3	134.5	213.0	230.6	247.2	280.2	296.8	416.8	579.7	720.6
Telephone services, residential.....	100.8	102.5	116.5	121.4	125.3	129.8	131.3	132.8	132.4	135.7	144.0
Water and sewer service, residential.....	94.4	120.4	146.1	154.8	169.9	188.7	209.1	226.8	243.3	259.8	282.3

Source of tables 792 and 793: U.S. Bureau of Labor Statistics, *Monthly Labor Review*.

## NO. 794. AVERAGE PRICE OF RESIDENTIAL UTILITY (PIPED) GAS, ELECTRICITY, AND FUEL OIL NO. 2, SELECTED AREAS: 1975 AND 1980

[In dollars per unit shown. One therm contains approximately 100 cubic feet of natural gas. As of January, 1975 not strictly comparable to 1980 due to revised methodology. For complete SMSA titles, see Appendix II]

AREA	UTILITY (PIPED) GAS (100 therms)		ELECTRICITY (500 kWh)		FUEL OIL No. 2 (gallon)		AREA	UTILITY (PIPED) GAS (100 therms)		ELECTRICITY (500 kWh)		FUEL OIL No. 2 (gallon)	
	1975	1980	1975	1980	1975	1980		1975	1980	1975	1980		
U.S. city average..... <sup>1</sup>	13.79	34.93	(NA)	26.70	.378	.929	L.A.-Long Beach-Anaheim.....	27.07	19.65	28.40	(NA)	(NA)	
Atlanta.....	(NA)	19.04	21.25	(NA)	.877		Miami.....	(NA)	45.41	(NA)	24.53	(NA)	(NA)
Baltimore.....	12.18	36.31	15.74	23.44	(NA)		Milwaukee.....	15.15	36.15	16.23	21.50	.364	.909
Boston.....	20.17	37.89	25.47	28.15	.367	.857	Minn.-St. Paul.....	13.54	32.35	18.69	24.23	.354	.818
Buffalo.....	25.38	49.43	23.70	30.51	.393	.922	New York.....	22.93	51.23	36.51	44.11	.402	.853
Chicago.....	18.54	39.25	19.00	23.90	.416	.950	Northeast.....	(NA)	39.75	(NA)	23.06	(NA)	.866
Cincinnati.....	14.32	37.51	18.58	27.47	.342	.958	Philadelphia.....	20.08	40.71	27.18	31.86	.380	.895
Cleveland.....	12.29	34.17	17.71	23.23	(NA)	.918	Pittsburgh.....	14.18	31.26	20.75	27.28	(NA)	(NA)
Dallas <sup>2</sup> .....	9.14	27.49	15.72	23.19	(NA)	(NA)	Portland.....	(NA)	49.48	(NA)	18.77	(NA)	.921
Denver-Boulder.....	(NA)	31.88	(NA)	25.80	(NA)	(NA)	St. Louis.....	14.54	37.79	17.83	23.33	.375	(NA)
Detroit.....	13.50	33.91	19.82	26.52	.351	.918	San Diego, S.C.....	29.64	17.93	30.96	(NA)	(NA)	.946
Honolulu.....	(NA)	125.95	17.34	36.41	(NA)	(NA)	San Francisco-Oakland.....	12.91	25.12	14.81	20.58	(NA)	(NA)
Houston.....	14.99	33.38	14.33	28.00	(NA)	(NA)	Seattle-Everett.....	18.88	48.12	6.93	10.80	.407	.985
Kansas City.....	9.29	24.58	19.22	26.04	(NA)	(NA)	Wash., D.C.....	20.43	42.50	22.32	28.40	.382	.946

NA Not available. <sup>1</sup> Excludes Honolulu. <sup>2</sup> Includes Ft. Worth. <sup>3</sup> Price is for propane only.Source: U.S. Bureau of Labor Statistics, *Consumer Prices: Energy*, monthly.

**NO. 795. AVERAGE RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL MONTHLY BILLS FOR ELECTRICITY: 1970 TO 1980**

[Residential, for cities of 2,500 or more population; commercial and industrial, for 465 large cities in United States and Puerto Rico with estimated total population of 77.0 million as of January 1, 1980. Composite average as of January 1, using latest available population weights. KW=kilowatts; kWh=kilowatthours]

ITEM	1970	1975	1979	1980, prel.	ITEM	1970	1975	1979	1980, prel.					
<b>RESIDENTIAL</b>														
<b>Average bill, dollars:</b>														
• 500 kWh.....	10.51	17.93	23.05	27.50	<b>COMMERCIAL—Con.</b>									
750 kWh.....	14.22	24.72	32.72	36.93	6 KW, 750 kWh.....	3.6	5.5	6.8	7.5					
1,000 kWh.....	18.31	32.29	43.12	48.76	12 KW, 1,500 kWh.....	8.4	5.6	6.8	7.6					
<b>Average bill, cents per kWh:</b>														
500 kWh.....	2.1	3.6	4.6	5.5	30 KW, 6,000 kWh.....	2.7	4.5	5.7	6.4					
750 kWh.....	2.0	3.3	4.4	4.9	40 KW, 10,000 kWh.....	2.4	4.1	5.2	5.9					
1,000 kWh.....	1.8	3.2	4.3	4.9	<b>INDUSTRIAL</b>									
<b>COMMERCIAL</b>														
<b>Average bill, dollars:</b>														
6 KW, 750 kWh.....	27	41	51	57	150 KW, 30,000 kWh.....	648	1,157	1,531	1,757					
12 KW, 1,500 kWh.....	52	83	103	114	300 KW, 60,000 kWh.....	1,183	2,199	2,975	3,431					
30 KW, 6,000 kWh.....	163	269	344	385	1,000 KW, 200,000 kWh.....	3,492	6,888	9,408	10,910					
40 KW, 10,000 kWh.....	240	406	521	590	1,000 KW, 200,000 kWh.....									

**NO. 796. NET MONTHLY RESIDENTIAL ELECTRIC BILLS (RANGE OF LOWEST TO HIGHEST) FOR 500 KILOWATTHOURS USE, 1970 TO 1980, AND BY STATES, 1980**

[In dollars. Based on rates as of January 1 for communities of 2,500 inhabitants or more]

YEAR AND STATE	Lowest bill	Highest bill	STATE	Lowest bill	Highest bill	STATE	Lowest bill	Highest bill
1970.....	4.25	25.00	Georgia.....	14.55	34.18	New Mexico.....	19.50	34.26
1971.....	4.25	28.00	Hawaii.....	36.41	64.47	New York.....	6.45	49.80
1972.....	4.25	30.37	Idaho.....	10.04	26.86	North Carolina.....	7.00	38.83
1973.....	4.25	30.37	Illinois.....	16.00	34.71	North Dakota.....	12.45	27.82
1974.....	4.25	30.37	Indiana.....	15.47	31.16	Ohio.....	17.56	36.93
1975.....	5.10	41.14	Iowa.....	16.00	34.11	Oklahoma.....	19.45	38.50
1976.....	4.68	41.13	Kansas.....	17.95	39.42	Oregon.....	6.58	17.77
1977.....	4.68	41.13	Kentucky.....	12.70	22.54	Pennsylvania.....	16.00	37.34
1978.....	4.68	47.14	Louisiana.....	11.00	38.95	Rhode Island.....	30.11	36.69
1979.....	4.68	55.97	Maine.....	19.47	29.60	South Carolina.....	15.28	29.00
1980 <sup>1</sup> .....	5.84	84.47	Maryland.....	21.00	37.36	South Dakota.....	12.30	32.53
Alabama.....	12.70	28.20	Massachusetts.....	21.19	46.89	Tennessee.....	12.70	24.75
Alaska.....	19.79	42.50	Michigan.....	15.32	32.36	Texas.....	11.59	35.25
Arizona.....	23.61	35.83	Minnesota.....	12.06	36.50	Utah.....	11.42	33.12
Arkansas.....	11.84	28.04	Mississippi.....	12.70	33.10	Vermont.....	19.07	35.40
California.....	9.39	41.75	Missouri.....	14.49	35.75	Virginia.....	13.95	37.91
Colorado.....	10.29	28.80	Montana.....	11.66	21.34	Washington.....	5.84	13.59
Connecticut.....	28.91	37.25	Nebraska.....	17.85	31.55	West Virginia.....	20.57	27.44
Delaware.....	26.48	41.63	Nevada.....	10.60	33.93	Wisconsin.....	13.50	32.50
District of Columbia.....	20.09	20.09	New Hampshire.....	24.59	36.08	Wyoming.....	13.66	29.40
Florida.....	18.08	43.80	New Jersey.....	28.89	44.68			

<sup>1</sup> Beginning in 1980, the bill does not include water heating usage.

Source of tables 795 and 796: Through 1975, U.S. Federal Power Commission, *Typical Electric Bills*, annual; thereafter, U.S. Energy Information Administration, *Typical Electric Bills*.

**NO. 797. AVERAGE PRICES OF SELECTED FUELS AND UTILITIES: 1970 TO 1981**

[Represents retail price, except as noted]

ITEM	Unit	1970	1973	1975	1976	1977	1978	1979	1980	1981, May
Crude oil, composite <sup>1</sup> .....	Dol. per bbl.....	3.40	4.15	10.38	10.89	11.96	12.46	17.72	23.07	36.11
Gasoline, average retail <sup>2</sup> .....	Cents per gal.....	35.7	38.8	56.7	59.0	62.2	62.6	85.7	119.1	133.3
Leaded regular.....	Cents per gal.....	(NA)	(NA)	(NA)	61.4	65.6	67.0	90.3	124.5	140.0
Unleaded regular.....	Cents per gal.....	(NA)	(NA)	60.9	63.6	67.4	69.4	92.2	128.1	144.7
Leaded premium.....	Cents per gal.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
No. 2 heating oil, residential.....	Cents per gal.....	18.5	22.8	37.7	40.6	46.0	49.4	65.6	97.8	122.7
Diesel fuel No. 2.....	Cents per gal.....	(NA)	(NA)	(NA)	34.7	39.3	40.2	62.4	87.3	106.8
Natural gas.....	Cents per 1,000 cu. ft.....	92.0	108.2	154.2	184.6	226.4	262.6	323.1	391.5	457.1
Residual fuel oil.....	Dol. per bbl.....	(NA)	(NA)	(NA)	11.49	13.23	12.75	18.67	26.08	34.11
Electric utilities, residential.....	Cents per kWh.....	2.22	2.54	3.51	3.73	4.05	4.31	4.64	5.36	6.27

NA Not available. <sup>1</sup> Refiner acquisition cost. <sup>2</sup> Full-service.

Source: U.S. Energy Information Administration, *Monthly Energy Review*.



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## Section 16

# Elections

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This section relates primarily to Presidential, congressional, and gubernatorial elections. Also presented are summary tables on congressional legislation, Black and female officeholders, population of voting age, voter participation, and campaign finances.

Official statistics on Federal elections, collected by the Clerk of the House, are published biennially in *Statistics of the Presidential and Congressional Election* and *Statistics of the Congressional Election*. Federal and State elections data appear also in *America Votes*, a biennial volume of the Elections Research Center, Washington, D.C. Federal elections data also appear in the U.S. Congress, *Congressional Directory*, and in official State documents. Data on reported registration and voting are obtained by the U.S. Bureau of the Census as part of the Current Population Survey (CPS) and are published in *Current Population Reports*, series P-20 (see text, p. 1).

Almost all Federal, State, and local governmental units in the United States conduct elections at various intervals for different offices and other purposes. The conduct of elections is regulated by State laws or, in some cities and counties, by local charter. An exception is that the U.S. Constitution prescribes the basis of representation in Congress and the manner of electing the President, and grants to Congress the right to regulate the times, places, and manner of electing Federal officers. Amendments to the Constitution have prescribed national criteria for voting eligibility. The 15th Amendment, adopted in 1870, gave all citizens the right to vote regardless of race, color, or previous condition of servitude. The 19th Amendment, adopted in 1919, further extended the right to vote to all citizens regardless of sex. The payment of poll taxes as a prerequisite to voting in Federal elections was banned by the 24th Amendment in 1964. In 1971, as a result of the 26th Amendment, eligibility to vote in national elections was extended to all citizens, age 18 and over.

**Presidential election.**—The Constitution specifies how the President and Vice President are selected. Each State elects, by popular vote, a group of electors equal in number to its total of members of Congress. Subsequent to the election, the electors meet in their respective States to vote for President and Vice President. Usually, each elector votes for the candidate receiving the most popular votes in his or her State. A majority vote of all electors is necessary to elect the President and Vice President. If no candidate receives a majority, the House of Representatives, with each State having one vote, is empowered to elect the President and Vice President, again, with a majority of votes required.

The 22d Amendment to the Constitution, adopted in 1951, limits presidential tenure to 2 elective terms of 4 years each, or to 1 elective term for any person who, upon succession to the Presidency, has held the office or acted as President for more than 2 years. The 23d Amendment, adopted in 1961, grants the District of Columbia 3 presidential electors, a number equal to that of the least populous State.

**Congressional election.**—The Constitution provides that Representatives be apportioned among the States according to their population; that a census of population be taken every 10 years as a basis for apportionment; and that each State have at least 1 Representative. At the time of each apportionment, Congress decides what the total number of Representatives will be. Since 1912, the total has been 435, except during 1960 to 1962 when it increased to 437, adding 1 Representative each for Alaska and Hawaii. The total reverted to 435 after reapportionment following the 1960 census. Members are elected for 2-year terms, all terms covering the same period. The District of Columbia elects one nonvoting delegate.

The Senate is composed of 100 members, 2 from each State, who are elected to serve for a term of 6 years. One-third of the Senate is elected every 2 years. Senators were originally chosen

## Elections

by the State legislatures. The 17th Amendment to the Constitution, adopted in 1913, prescribed that Senators be elected by popular vote.

**Voter eligibility and participation.**—The Census Bureau publishes estimates of the population of voting age and the percent casting votes in each State for Presidential and congressional election years. Voting-age population estimates include a number of persons who meet the age requirement but are not eligible to vote (for example, aliens and institutionalized persons). Since 1964, voter participation and voter characteristics data based on the CPS (see above) conducted during November of election years have also been issued biennially.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

### NO. 798. VOTE CAST FOR PRESIDENT, BY POLITICAL PARTIES: 1920 TO 1980

[Prior to 1960, excludes Alaska and Hawaii; prior to 1964, excludes District of Columbia. Vote cast for major party candidates includes the votes of minor parties cast for those candidates. See also *Historical Statistics, Colonial Times to 1970*, series Y 79-83 and Y 135]

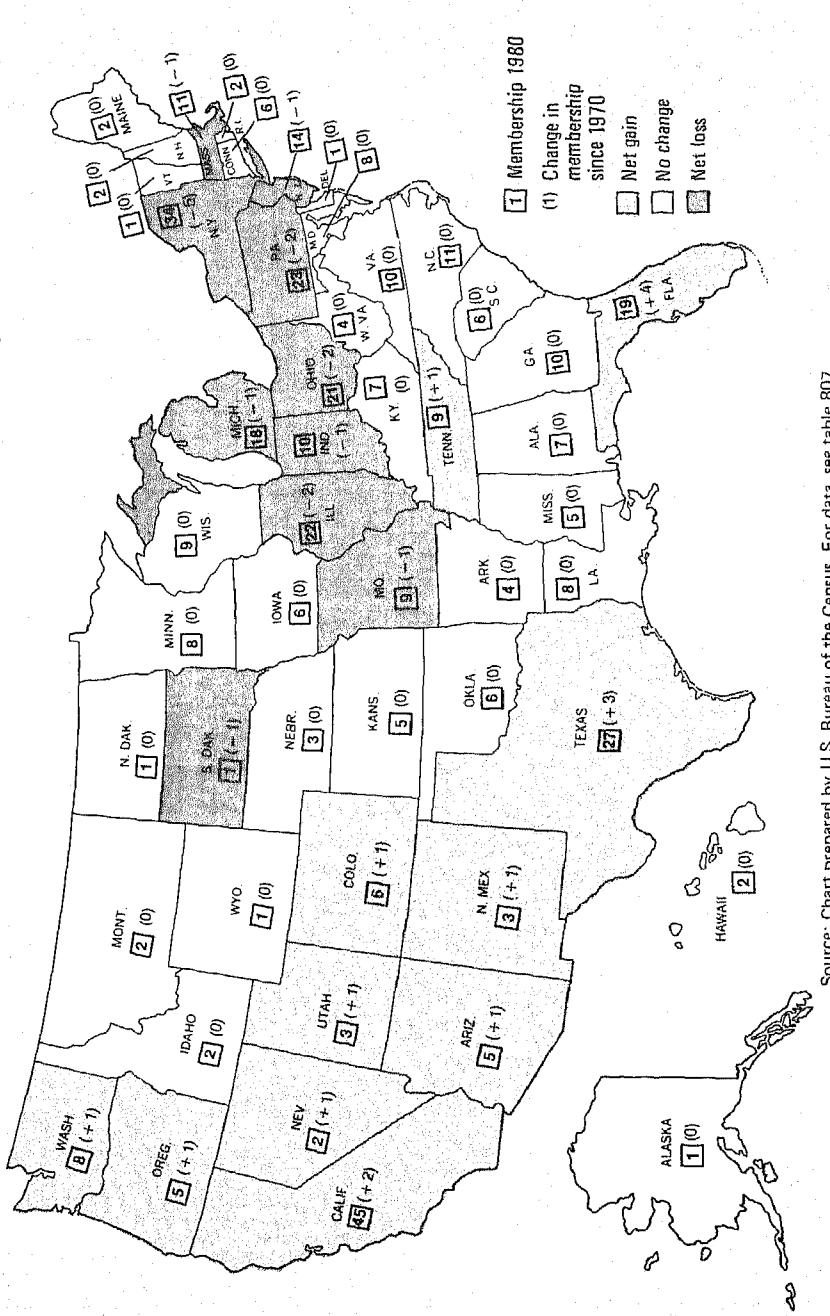
YEAR	CANDIDATES FOR PRESIDENT		Total popular vote <sup>1</sup>	VOTE CAST FOR PRESIDENT—Con.							
	Democratic	Republican		Democratic		Republican					
				Popular vote	Elec- toral vote	Popular vote	Elec- toral vote				
1920	Cox	Harding	1,000	1,000	9,130	34.1	127	1,000	16,143	60.4	404
1924	Davis	Coolidge	29,086	8,385	28.8	136	15,718	54.0	382		
1928	Smith	Hoover	36,812	15,016	40.8	87	21,392	58.1	444		
1932	F. D. Roosevelt	Hoover	39,732	22,810	57.4	472	15,759	39.7	53		
1936	F. D. Roosevelt	Landon	45,643	27,753	60.8	523	16,675	36.5	8		
1940	F. D. Roosevelt	Willkie	49,900	27,313	54.7	449	22,348	44.8	82		
1944	F. D. Roosevelt	Dewey	47,977	25,813	53.4	432	22,018	45.9	99		
1948	Truman	Dewey	48,794	24,179	49.6	303	21,991	45.1	189		
1952	Stevenson	Eisenhower	61,551	27,315	44.4	89	33,936	55.1	442		
1956	Stevenson	Eisenhower	62,027	26,023	42.0	73	35,500	57.4	457		
1960	Kennedy	Nixon	68,838	34,227	49.7	303	34,108	49.5	219		
1964	Johnson	Goldwater	70,645	43,130	61.1	486	27,178	38.5	52		
1968	Humphrey	Nixon	73,212	31,275	42.7	191	31,785	43.4	301		
1972	McGovern	Nixon	77,719	29,170	37.5	17	47,170	60.7	520		
1976	Carter	Ford	81,556	40,831	50.1	297	39,148	48.0	240		
1980	Carter	Reagan	86,515	35,484	41.0	49	43,904	50.7	489		

YEAR	VOTE CAST FOR PRESIDENT—Con.		YEAR	VOTE CAST FOR PRESIDENT—Con.	
	LEADING OTHER CANDIDATES			LEADING OTHER CANDIDATES	
1920	Eugene Dabs, Socialist, 919,799	P. P. Christensen, Farmer-Labor, 265,411	1952	Vincent Hallinan, Progressive, 140,023.	
	Robert LaFollette, Progressive, 4,831,289	Herman P. Faris, Prohibition, 57,620	1956	Stuart Hamblen, Prohibition, 72,949.	
1928	Norman Thomas, Socialist, 267,835	Vern L. Reynolds, Socialist Labor, 21,603	1960	T. Coleman Andrews, States' Rights, 111,178.	
1932	Norman Thomas, Socialist, 881,951	William Z. Foster, Communist, 102,785	1964	Eric Hass, Socialist Labor, 44,450.	
1936	William Lemke, Union, 882,479	Norman Thomas, Socialist, 187,720	1968	Eric Hass, Socialist Labor, 47,522.	
1940	Norman Thomas, Socialist, 99,557	Roger Babson, Prohibition, 57,812	1972	Rutherford Decker, Prohibition, 46,203.	
1944	Norman Thomas, Socialist, 80,518	Claude Watson, Prohibition, 74,758	1976	Eric Hass, Socialist Labor, 45,219.	
1948	Strom Thurmond, States' Rights, 1,176,125	Henry Wallace, Progressive, 1,157,326	1980	Clifton DeBerry, Socialist Workers, 32,720.	

<sup>1</sup> Includes votes for minor party candidates, independents, unpledged electors, and scattered write-in votes.

Source: 1920-1936, Edgar Eugene Robinson, *The Presidential Vote and They Voted for Roosevelt*, Stanford University Press, Stanford, Calif., 1934 and 1947, respectively, 1940-1964 and 1968-1980, Elections Research Center, Washington, D.C., America at the Polls and *America Votes*, biennial, respectively (copyright).

Figure 16.1 Apportionment of Membership in House of Representatives, by State: 1980



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 807.

**NO. 799. ELECTORAL VOTE CAST FOR PRESIDENT, BY MAJOR POLITICAL PARTIES—STATES: 1940 TO 1980**

[D=Democratic, R=Republican. For composition of regions, see fig. I, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series Y 84-134]

REGION AND STATE	1940	1944	1948 <sup>1</sup>	1952	1956 <sup>2</sup>	1960 <sup>3</sup>	1964	1968 <sup>4</sup>	1972 <sup>5</sup>	1976 <sup>6</sup>	1980
Democratic.....	449	432	303	89	73	303	486	191	17	287	49
Republican.....	B2	99	189	442	457	219	52	301	520	240	489
<b>Northeast: Dem.</b> .....	132	130	20	—	—	121	126	102	14	86	4
Rep.....	8	8	118	133	133	12	—	24	108	36	118
<b>North Central: Dem.</b> .....	93	73	101	—	13	71	149	31	—	58	10
Rep.....	68	82	54	153	140	82	—	118	145	87	135
<b>South: Dem.</b> .....	165	167	117	89	60	101	121	45	3	149	31
Rep.....	—	—	11	77	105	50	47	77	165	20	138
<b>West: Dem.</b> .....	59	62	65	—	—	10	90	13	—	4	4
Rep.....	6	9	6	79	78	75	5	82	102	97	98
Alabama.....	D-11	D-11	( <sup>1</sup> )	D-11	<sup>2</sup> D-10	<sup>a</sup> D-5	R-10	( <sup>1</sup> )	R-9	D-9	R-9
Alaska.....	(X)	(X)	(X)	(X)	(X)	R-3	D-3	R-3	R-3	R-3	R-3
Arizona.....	D-3	D-4	D-4	R-4	R-4	R-4	R-5	R-5	R-6	R-6	R-6
Arkansas.....	D-9	D-9	D-9	D-8	D-8	D-8	D-6	( <sup>1</sup> )	R-6	D-6	R-6
California.....	D-22	D-25	D-25	R-32	R-32	R-32	D-40	R-40	R-45	R-45	R-45
Colorado.....	R-6	R-6	D-6	R-6	R-6	R-6	D-6	R-6	R-7	R-7	R-7
Connecticut.....	D-8	D-8	R-8	R-8	R-8	D-8	D-8	D-8	R-8	R-8	R-8
Delaware.....	D-3	D-3	R-3	R-3	R-3	D-3	D-3	R-3	R-3	R-3	R-3
District of Columbia.....	(X)	(X)	(X)	(X)	(X)	(X)	D-3	D-3	D-3	D-3	D-3
Florida.....	D-7	D-8	D-8	R-10	R-10	R-10	D-14	R-14	R-17	D-17	R-17
Georgia.....	D-12	D-12	D-12	D-12	D-12	D-12	R-12	( <sup>1</sup> )	R-12	D-12	D-12
Hawaii.....	(X)	(X)	(X)	(X)	D-3	D-4	D-4	R-4	D-4	D-4	D-4
Idaho.....	D-4	D-4	D-4	R-4	R-4	D-4	D-4	R-4	R-4	R-4	R-4
Illinois.....	D-29	D-28	D-28	R-27	R-27	D-27	D-26	R-26	R-26	R-26	R-26
Indiana.....	R-14	R-13	R-13	R-13	R-13	R-13	D-13	R-13	R-13	R-13	R-13
Iowa.....	R-11	D-10	D-10	R-10	R-10	D-9	R-9	R-8	R-8	R-8	R-8
Kansas.....	R-9	R-8	R-8	R-8	R-8	R-8	D-7	R-7	R-7	R-7	R-7
Kentucky.....	D-11	D-11	D-11	D-10	R-10	R-10	D-9	R-9	R-9	D-9	R-9
Louisiana.....	D-10	D-10	( <sup>1</sup> )	D-10	R-10	D-10	R-10	( <sup>1</sup> )	R-10	D-10	R-10
Maine.....	R-5	R-5	R-5	R-5	R-5	R-5	D-4	D-4	R-4	R-4	R-4
Maryland.....	D-8	R-8	R-9	R-9	D-9	D-9	D-10	D-10	R-10	D-10	D-10
Massachusetts.....	D-17	D-16	D-16	R-16	R-16	D-16	D-14	D-14	D-14	D-14	R-14
Michigan.....	R-19	D-19	R-19	R-20	R-20	D-20	D-21	D-21	R-21	R-21	R-21
Minnesota.....	D-11	D-11	D-11	R-11	R-11	D-11	D-10	D-10	R-10	D-10	D-10
Mississippi.....	D-9	D-9	( <sup>1</sup> )	D-8	D-8	( <sup>1</sup> )	R-7	( <sup>1</sup> )	R-7	D-7	R-7
Missouri.....	D-15	D-15	D-15	R-13	D-13	D-13	D-12	R-12	R-12	D-12	R-12
Montana.....	D-4	D-4	D-4	R-4	R-4	R-4	D-4	R-4	R-4	R-4	R-4
Nebraska.....	R-7	R-6	R-6	R-6	R-6	R-6	D-5	R-5	R-5	R-5	R-5
Nevada.....	D-3	D-3	D-3	R-3	R-3	D-3	D-3	R-3	R-3	R-3	R-3
New Hampshire.....	D-4	D-4	R-4	R-4	R-4	R-4	D-4	R-4	R-4	R-4	R-4
New Jersey.....	D-16	D-16	R-16	R-16	R-16	D-16	D-17	R-17	R-17	R-17	R-17
New Mexico.....	D-3	D-4	D-4	R-4	R-4	D-4	D-4	R-4	R-4	R-4	R-4
New York.....	D-47	D-47	R-47	R-45	R-45	D-45	D-43	D-43	R-41	D-41	R-41
North Carolina.....	D-13	D-14	D-14	D-14	D-14	D-14	D-13	R-12	R-13	D-13	R-13
North Dakota.....	R-4	R-4	R-4	R-4	R-4	R-4	D-4	R-4	R-3	R-3	R-3
Ohio.....	D-26	D-25	D-25	R-25	R-25	R-25	D-26	R-26	R-25	D-25	R-25
Oklahoma.....	D-11	D-10	D-10	R-8	R-8	<sup>a</sup> R-7	D-8	R-8	R-8	R-8	R-8
Oregon.....	D-5	D-6	R-6	R-6	R-6	R-6	D-6	R-6	R-6	R-6	R-6
Pennsylvania.....	D-36	D-35	R-35	R-32	R-32	D-32	D-29	D-29	D-27	D-27	R-27
Rhode Island.....	D-4	D-4	D-4	R-4	R-4	D-4	D-4	R-4	R-4	D-4	R-4
South Carolina.....	D-8	D-8	( <sup>1</sup> )	D-8	D-8	D-8	R-8	R-8	R-8	D-8	R-8
South Dakota.....	R-4	R-4	R-4	R-4	R-4	R-4	D-4	R-4	R-4	R-4	R-4
Tennessee.....	D-11	D-12	D-11	R-11	R-11	R-11	D-11	R-11	R-10	D-10	R-10
Texas.....	D-23	D-23	D-23	R-24	R-24	D-24	D-25	D-25	R-26	D-26	R-26
Utah.....	D-4	D-4	D-4	R-4	R-4	R-4	D-4	R-4	R-4	R-4	R-4
Vermont.....	R-3	R-3	R-3	R-3	R-3	R-3	D-3	R-3	R-3	R-3	R-3
Virginia.....	D-11	D-11	D-11	R-12	R-12	R-12	D-12	R-12	<sup>b</sup> R-11	R-12	R-12
Washington.....	D-8	D-8	D-8	R-9	R-9	R-9	D-9	R-9	<sup>b</sup> R-8	R-9	R-9
West Virginia.....	D-8	D-8	D-8	R-8	R-8	D-8	D-7	R-7	R-6	D-6	D-6
Wisconsin.....	D-12	R-12	D-12	R-12	R-12	R-12	D-12	R-12	R-11	D-11	R-11
Wyoming.....	D-3	R-3	D-3	R-3	R-3	R-3	D-3	R-3	R-3	R-3	R-3

<sup>—</sup> Represents zero. <sup>X</sup> Not applicable. <sup>1</sup> Excludes 39 electoral votes cast for States' Rights Democratic candidates as follows: Alabama 11; Louisiana 10; Mississippi 9; South Carolina 8; and Tennessee 1. <sup>2</sup> Excludes 1 electoral vote cast for Walter B. Jones. <sup>3</sup> Excludes 15 electoral votes cast for Harry F. Byrd as follows: Alabama 6; Mississippi 8; and Oklahoma 1.

<sup>4</sup> Excludes 46 electoral votes cast for George C. Wallace as follows: Alabama 10; Arkansas 6; Georgia 12; Louisiana 10; Mississippi 7; North Carolina 1. <sup>5</sup> Excludes 1 electoral vote cast for John Hospers. <sup>6</sup> Excludes 1 electoral vote cast for Ronald Reagan.

Source: 1940-1972, U.S. Congress, Clerk of the House, *Statistics of the Presidential and Congressional Election*; thereafter, Elections Research Center, Washington, D.C., *America Votes*, biennial. (Copyright).

# Popular Vote Cast for President

481

## NO. 800. POPULAR VOTE CAST FOR PRESIDENT, AND PERCENT OF VOTE FOR LEADING PARTY, BY REGIONS AND STATES: 1948 TO 1968

[In thousands, except percent. D=Democratic, R=Republican. Leading party vote refers to the party vote representing either a majority or a plurality for the victorious party in the area shown. For composition of regions, see fig. I, inside front cover. See also tables 798 and 801, and *Historical Statistics, Colonial Times to 1970*, series Y 135-186.]

REGION AND STATE	1948		1952		1956		1960		1964		1968	
	Total vote cast	Percent for leading party										
<b>Total...</b>	<b>48,794</b>	<b>D-49.6</b>	<b>61,551</b>	<b>R-55.1</b>	<b>62,027</b>	<b>R-57.4</b>	<b>68,838</b>	<b>D-49.7</b>	<b>70,645</b>	<b>D-61.1</b>	<b>73,212</b>	<b>R-43.4</b>
Northeast...	15,800	R-47.8	18,801	R-55.1	18,782	R-60.7	20,053	D-52.7	19,623	D-68.3	19,240	D-50.2
North Central...	17,540	D-50.3	21,153	R-57.6	21,114	R-58.6	22,979	R-52.2	22,209	D-61.3	22,206	R-46.8
South...	8,244	D-52.6	12,445	D-50.5	12,478	R-51.1	14,389	D-49.9	15,597	D-53.3	19,177	R-36.4
West...	7,209	D-49.4	9,151	R-57.3	9,654	R-56.4	11,417	R-51.1	12,214	D-59.4	12,590	R-48.7
Alabama...	215	( <sup>1</sup> )	426	D-64.6	497	D-56.5	570	D-56.8	680	R-69.5	1,050	( <sup>2</sup> )
Alaska...	(x)	(x)	(x)	(x)	(x)	(x)	61	R-50.9	67	D-65.9	83	R-45.3
Arizona...	177	D-53.8	261	R-58.3	290	R-61.0	398	R-55.5	481	R-50.4	487	R-54.8
Arkansas...	242	D-61.7	405	D-55.9	407	D-52.5	429	D-50.2	560	D-56.1	620	( <sup>2</sup> )
California...	4,022	D-47.6	5,142	R-56.3	5,466	R-55.4	6,507	R-50.1	7,058	D-59.1	7,252	R-47.8
Colorado...	515	D-51.9	630	R-60.3	657	R-60.0	736	R-54.6	777	D-61.3	811	R-50.5
Connecticut...	884	R-49.5	1,097	R-55.7	1,117	R-63.7	1,223	D-53.7	1,219	D-67.8	1,256	D-49.5
Delaware...	139	R-50.0	174	R-51.8	178	R-55.1	197	D-50.6	201	D-60.9	214	R-45.1
Dist. of Columbia...	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	199	D-85.5	171	D-81.8
Florida...	578	D-48.8	989	R-55.0	1,126	R-57.2	1,544	R-51.5	1,854	D-51.1	2,188	R-40.5
Georgia...	419	D-60.8	656	D-69.7	670	D-68.4	733	D-62.5	1,139	R-54.1	1,250	( <sup>2</sup> )
Hawaii...	(x)	(x)	(x)	(x)	(x)	(x)	185	( <sup>1</sup> )	207	D-78.8	236	D-59.8
Idaho...	215	D-50.0	276	R-65.4	273	R-61.2	300	R-53.8	292	D-50.9	291	R-56.8
Illinois...	3,984	D-50.1	4,481	R-54.8	4,407	R-59.5	4,757	D-50.0	4,703	D-59.5	4,620	R-47.1
Indiana...	1,656	R-49.6	1,956	R-58.1	1,975	R-59.9	2,135	R-55.0	2,092	D-56.0	2,124	R-50.3
Iowa...	1,038	D-50.3	1,269	R-63.8	1,235	R-59.1	1,274	R-56.7	1,185	D-61.9	1,168	R-53.0
Kansas...	789	R-53.6	896	R-68.8	866	R-65.4	929	R-60.4	858	D-54.1	873	R-54.8
Kentucky...	823	D-56.7	993	D-49.9	1,054	R-54.3	1,124	R-53.6	1,046	D-64.0	1,056	R-43.8
Louisiana...	416	( <sup>1</sup> )	652	D-52.9	618	R-53.3	808	D-50.4	896	R-56.8	1,097	( <sup>2</sup> )
Maine...	265	R-56.4	352	R-66.0	352	R-70.9	422	R-57.0	381	D-68.8	393	D-55.3
Maryland...	597	R-49.4	902	R-55.4	933	R-60.0	1,055	D-53.6	1,116	D-65.5	1,235	D-43.6
Massachusetts...	2,107	D-54.7	2,383	R-54.2	2,349	R-59.3	2,468	D-60.2	2,345	D-76.2	2,332	D-63.0
Michigan...	2,110	R-49.2	2,799	R-55.4	3,080	R-55.6	3,318	D-50.9	3,203	D-66.7	3,306	D-48.2
Minnesota...	1,212	D-57.2	1,379	R-55.3	1,340	R-53.7	1,542	D-50.6	1,554	D-63.8	1,589	D-54.0
Mississippi...	192	( <sup>1</sup> )	286	D-60.4	248	D-58.2	298	( <sup>1</sup> )	408	R-87.1	655	( <sup>2</sup> )
Missouri...	1,579	D-56.1	1,892	R-50.7	1,833	D-50.1	1,934	D-60.3	1,818	D-64.0	1,810	R-44.9
Montana...	224	D-53.1	265	R-59.4	271	R-57.1	278	R-51.1	279	D-56.9	274	R-50.6
Nebraska...	489	R-54.2	610	R-69.2	577	R-65.5	613	R-62.1	584	D-52.6	537	R-59.8
Nevada...	62	D-50.4	82	R-61.4	97	R-58.0	107	D-51.2	135	D-58.5	154	R-47.5
New Hampshire...	231	R-52.4	273	R-60.9	267	R-66.1	296	R-53.4	288	D-63.9	297	R-52.1
New Jersey...	1,950	R-50.3	2,419	R-56.8	2,484	R-64.7	2,773	D-50.0	2,848	D-65.6	2,875	R-46.1
New Mexico...	187	D-56.4	239	R-55.4	254	R-57.8	311	D-50.2	329	D-59.0	327	R-51.8
New York...	6,177	R-46.0	7,128	R-55.5	7,096	R-61.2	7,291	D-52.5	7,168	D-68.6	6,792	D-49.7
North Carolina...	791	D-58.0	1,211	D-53.9	1,166	D-50.7	1,369	D-52.1	1,425	D-56.2	1,587	R-39.5
North Dakota...	221	R-52.2	270	R-71.0	254	R-61.7	278	R-55.4	256	D-58.0	248	R-55.9
Ohio...	2,836	D-49.5	3,701	R-56.8	3,702	R-61.1	4,162	R-53.3	3,969	D-62.9	3,980	R-45.2
Oklahoma...	722	D-62.7	949	R-54.6	859	R-55.1	903	R-59.0	932	D-55.7	943	R-47.7
Oregon...	524	R-49.8	695	R-80.5	736	R-55.2	776	R-52.6	786	D-63.7	820	R-49.8
Pennsylvania...	3,793	R-50.9	4,581	R-52.7	4,577	R-58.5	5,007	D-51.1	4,823	D-64.9	4,748	D-47.6
Rhode Island...	328	D-56.5	414	R-50.9	388	R-58.3	408	D-63.6	390	D-80.9	385	D-64.0
South Carolina...	143	( <sup>1</sup> )	341	D-50.7	301	D-45.4	387	D-51.2	525	D-58.9	667	R-38.1
South Dakota...	260	R-51.8	294	R-69.3	294	R-58.4	306	R-58.2	293	D-55.6	281	R-53.3
Tennessee...	550	D-49.1	893	R-50.0	939	R-49.2	1,052	R-52.9	1,144	D-55.5	1,249	R-37.8
Texas...	1,250	D-66.0	2,076	R-53.1	1,955	R-55.3	2,311	D-50.5	2,627	D-63.3	3,079	D-41.1
Utah...	276	D-54.0	330	R-58.9	334	R-64.6	375	R-54.8	401	D-54.7	423	R-56.5
Vermont...	123	R-61.5	154	R-71.5	153	R-72.2	167	R-59.8	163	D-66.3	161	R-52.8
Virginia...	419	D-47.9	620	R-56.3	698	R-55.4	771	R-52.4	1,042	D-53.5	1,361	R-43.4
Washington...	905	D-52.6	1,103	R-54.3	1,151	R-53.9	1,242	R-50.7	1,259	D-62.0	1,304	D-47.2
West Virginia...	749	D-57.3	874	D-51.9	831	R-54.1	838	D-52.7	792	D-67.9	754	D-49.6
Wisconsin...	1,277	D-50.7	1,607	R-61.0	1,551	R-61.6	1,729	R-51.8	1,692	D-62.1	1,692	R-47.9
Wyoming...	101	D-51.6	129	R-62.7	124	R-60.1	141	R-55.0	143	D-56.6	127	R-55.8

X Not applicable. <sup>1</sup> Vote represented a victory for Thurmond (States' Rights Democratic Party) as follows: Alabama, 79.7 percent; Louisiana, 49.1 percent; Mississippi, 87.2 percent and South Carolina, 72.0 percent. <sup>2</sup> Vote represented a victory for Wallace (American Independent Party) as follows: Alabama, 65.8 percent; Arkansas, 38.9 percent; Georgia, 42.9 percent; Louisiana, 48.3 percent; and Mississippi, 63.4 percent. <sup>3</sup> Percentages of 50.0 for both parties based on following vote: Democratic, 92,410; Republican, 92,295. <sup>4</sup> Vote represented a victory for unpledged Democratic electors: 38.0 percent.

Source: 1948, Elections Research Center, Washington, D.C., *America at the Polls* (copyright); 1952 and 1966, U.S. Bureau of the Census, *Congressional District Data Book* (*Districts of the 88th Congress*), 1963; and 1960-1968, U.S. Congress, Clerk of the House, *Statistics of the Presidential and Congressional Election*.

**NO. 801. POPULAR VOTE CAST FOR PRESIDENT, BY POLITICAL PARTIES—REGIONS AND STATES: 1972 TO 1980**

[In thousands, except percent. D=Democratic, R=Republican. See headnote, table 800. See also *Historical Statistics, Colonial Times to 1970*, series Y 135-186]

REGION AND STATE	1972			1976			1980					
	Total <sup>1</sup>	Democratic Party	Repub-lican Party	Per-cent for leading party	Total <sup>1</sup>	Democratic Party	Repub-lican Party	Per-cent for leading party	Total <sup>1</sup>	Democratic Party	Repub-lican Party	Per-cent for leading party
<b>Total.....</b>	<b>77,719</b>	<b>29,170</b>	<b>47,170</b>	<b>R-60.7</b>	<b>81,556</b>	<b>40,831</b>	<b>39,148</b>	<b>D-50.1</b>	<b>86,515</b>	<b>35,484</b>	<b>43,904</b>	<b>R-50.7</b>
Northeast.....	19,952	8,278	11,483	R-57.6	19,520	9,929	9,272	D-50.9	19,206	8,019	9,147	R-47.6
North Central.....	23,190	9,127	13,711	R-59.1	24,155	11,671	11,995	R-49.7	25,178	10,291	12,827	R-50.9
South.....	20,048	6,087	13,666	R-68.2	23,198	12,520	10,394	D-54.0	25,813	11,554	13,118	R-50.8
West.....	14,529	5,679	8,309	R-57.2	14,682	6,711	7,488	R-51.0	16,818	5,620	8,813	R-54.0
Ala.....	1,006	257	729	R-72.4	1,183	658	504	D-55.7	1,342	637	654	R-48.8
Alaska.....	95	33	55	R-58.1	124	44	72	R-57.9	158	42	86	R-54.3
Ariz.....	623	199	403	R-64.7	743	295	419	R-56.4	874	247	530	R-60.6
Ark.....	661	200	449	R-68.9	768	498	268	D-65.0	898	398	403	R-49.1
Calif.....	8,368	3,476	4,602	R-55.0	7,867	3,742	3,882	R-49.3	8,587	3,084	4,525	R-52.7
Colo.....	954	330	597	R-62.6	1,082	460	584	R-54.0	1,184	368	652	R-55.1
Corn.....	1,384	555	811	R-58.6	1,382	648	719	R-52.1	1,406	542	677	R-48.2
Del.....	236	92	140	R-59.6	236	123	110	D-52.0	236	106	111	R-47.2
D.C.....	163	128	35	D-78.1	169	138	28	D-81.6	175	131	24	D-74.8
Fla.....	2,583	718	1,888	R-71.8	3,151	1,636	1,470	D-51.9	3,687	1,419	2,047	R-56.6
Ga.....	1,175	290	881	R-75.0	1,467	979	484	D-66.7	1,597	891	654	D-55.8
Hawaii.....	270	101	169	R-62.5	291	147	140	D-50.6	303	136	130	D-44.8
Idaho.....	310	81	199	R-64.2	344	127	204	R-59.3	437	110	291	R-66.5
Ill.....	4,723	1,913	2,788	R-59.0	4,719	2,271	2,364	R-50.1	4,750	1,981	2,358	R-49.6
Ind.....	2,126	709	1,405	R-66.1	2,220	1,015	1,184	R-53.3	2,242	844	1,256	R-56.0
Iowa.....	1,226	496	706	R-57.6	1,279	620	633	R-49.5	1,318	509	676	R-51.3
Kans.....	916	270	620	R-67.7	958	430	503	R-52.5	980	326	567	R-57.9
Ky.....	1,067	371	676	R-63.4	1,167	616	532	D-52.8	1,295	616	635	R-49.1
La.....	1,051	298	687	R-65.3	1,278	661	587	D-51.7	1,549	708	793	R-51.2
Mass.....	417	161	256	R-61.5	483	232	236	R-48.9	523	221	239	R-45.6
Md.....	1,354	506	829	R-61.3	1,440	760	673	D-52.8	1,540	726	681	D-47.1
Mass.....	2,459	1,333	1,112	R-54.2	2,548	1,429	1,030	D-56.1	2,524	1,054	1,058	R-41.9
Mich.....	3,490	1,459	1,962	R-58.2	3,654	1,697	1,894	R-51.8	3,910	1,682	1,915	R-49.0
Minn.....	1,742	802	888	R-51.6	1,950	1,070	819	D-54.9	2,052	954	873	D-46.5
Miss.....	646	127	505	R-78.2	789	381	367	D-49.6	893	429	441	R-49.4
Mo.....	1,856	697	1,154	R-62.2	1,954	998	927	D-51.1	2,100	931	1,074	R-51.2
Mont.....	318	120	184	R-57.9	329	149	174	R-52.8	364	118	207	R-56.8
Nebr.....	576	170	406	R-70.5	608	234	360	R-59.2	641	167	420	R-65.6
Nev.....	182	56	116	R-63.7	202	92	101	R-50.2	248	67	155	R-62.5
N.H.....	334	116	214	R-64.0	340	148	186	R-54.7	384	109	222	R-57.7
N.J.....	2,987	1,102	1,846	R-61.6	3,014	1,445	1,510	R-50.1	2,976	1,147	1,547	R-52.0
N. Mex.....	386	141	236	R-61.0	418	201	211	R-50.5	457	168	251	R-54.9
N.Y.....	7,166	2,951	4,193	R-58.5	6,634	3,380	3,101	D-51.9	6,202	2,728	2,694	R-46.7
N.C.....	1,519	439	1,055	R-69.5	1,679	927	742	D-55.2	1,856	876	915	R-49.3
N. Dak.....	281	100	174	R-82.1	297	136	153	R-51.6	302	79	194	R-64.2
Ohio.....	4,095	1,559	2,442	R-59.8	4,112	2,012	2,001	D-48.9	4,284	1,752	2,207	R-51.5
Oklahoma.....	1,030	247	759	R-73.7	1,092	532	546	R-50.0	1,150	402	696	R-60.5
Oreg.....	928	393	487	R-52.4	1,030	490	492	R-47.8	1,182	457	571	R-48.3
Pa.....	4,592	1,797	2,715	R-59.1	4,621	2,329	2,206	D-50.4	4,562	1,988	2,262	R-49.6
R.I.....	416	195	220	R-53.0	411	228	181	D-55.4	416	198	155	D-47.7
S.C.....	674	187	477	R-70.8	803	451	346	D-56.2	894	430	442	R-49.4
S. Dak.....	307	140	166	R-54.2	301	147	152	R-50.4	328	104	198	R-60.5
Tenn.....	1,201	357	813	R-67.7	1,476	826	634	D-55.9	1,618	783	788	R-48.7
Tex.....	3,471	1,154	2,299	R-66.2	4,072	2,082	1,953	D-51.1	4,542	1,881	2,511	R-55.3
Utah.....	478	126	324	R-67.6	541	182	338	R-62.4	604	124	440	R-72.8
Vt.....	187	68	117	R-62.7	188	81	102	R-54.4	213	82	95	R-44.4
Va.....	1,457	439	988	R-67.8	1,697	814	837	R-49.3	1,866	752	990	R-53.0
Wash.....	1,471	568	837	R-56.8	1,556	717	778	R-50.0	1,742	650	865	R-49.7
W. Va.....	762	277	485	R-63.6	751	436	315	D-58.0	738	367	334	D-49.8
Wis.....	1,853	810	989	R-53.4	2,104	1,040	1,005	D-49.4	2,273	982	1,089	R-47.9
Wyo.....	146	44	100	R-69.0	156	62	93	R-59.3	177	49	111	R-62.6

<sup>1</sup> Includes other parties.

Source: 1972, U.S. Congress, Clerk of the House, *Statistics of the Presidential and Congressional Election of Nov. 7, 1972* (in some cases, figures have been revised by Elections Research Center, Washington, D.C.); thereafter, Elections Research Center, Washington, D.C., *America Votes*, biennial (copyright).

# Votes Cast For President

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## No. 802. POPULAR VOTE CAST FOR PRESIDENT AND PERCENT DISTRIBUTION OF VOTE BY POLITICAL PARTY—GEOGRAPHIC DIVISIONS: 1964 TO 1980

[For composition of divisions, see fig. I, inside front cover]

YEAR AND PARTY	Unit	Total	New Eng-land	Middle Atlantic	East North Central	West North Central	South Atlan-tic	East South Central	West South Central	Mountain	Pacific
1964, total.....	1,000.....	70,645	4,786	14,837	15,659	6,650	8,294	3,289	5,016	2,837	9,377
Democratic.....	Percent.....	61.1	72.7	66.8	61.6	60.6	55.6	41.3	57.5	56.4	60.4
Republican.....	Percent.....	38.5	27.0	32.9	38.2	39.1	44.4	52.2	42.3	43.3	39.4
Other.....	Percent.....	.5	.2	.3	.1	.2	(2)	6.5	.2	.3	.2
1968, total.....	1,000.....	73,212	4,825	14,415	15,701	6,505	9,428	4,009	5,740	2,095	9,695
Democratic.....	Percent.....	42.7	57.1	47.9	43.9	43.2	34.5	27.3	36.0	38.1	45.3
Republican.....	Percent.....	43.4	38.5	44.6	45.9	48.9	39.2	29.2	37.0	52.9	47.4
Other.....	Percent.....	13.9	4.4	7.6	10.2	7.9	26.3	43.5	27.0	9.0	7.3
1972, total.....	1,000.....	77,719	5,197	14,755	16,286	6,904	9,923	3,921	6,204	3,397	11,132
Democratic.....	Percent.....	37.5	46.7	39.6	39.6	38.8	31.0	28.4	30.6	32.6	41.1
Republican.....	Percent.....	60.7	52.5	59.3	58.9	59.8	68.0	69.5	67.6	63.6	55.2
Other.....	Percent.....	1.8	.7	1.0	1.5	1.5	1.0	2.2	1.8	3.8	3.7
1976, total.....	1,000.....	81,556	5,351	14,169	16,809	7,346	11,392	4,596	7,210	3,815	10,867
Democratic.....	Percent.....	50.1	51.7	50.6	47.8	49.5	55.0	54.0	52.4	41.1	47.3
Republican.....	Percent.....	48.0	45.9	48.1	50.3	48.3	43.9	44.3	46.5	55.7	49.4
Other.....	Percent.....	1.9	2.4	1.3	1.9	2.2	1.1	1.7	1.1	3.2	3.3
1980, total.....	1,000.....	86,515	5,467	13,739	17,458	7,719	12,589	5,147	8,078	4,346	11,973
Democratic.....	Percent.....	41.0	40.3	42.3	41.4	39.8	45.3	47.9	42.0	28.8	36.5
Republican.....	Percent.....	50.7	44.7	48.8	50.5	51.8	49.2	48.9	54.5	60.7	51.6
Other.....	Percent.....	8.2	14.9	8.9	8.1	8.4	5.5	3.2	3.5	10.6	11.9

Z Less than .05 percent.

Source: Elections Research Center, Washington, D.C., *America Votes*, biennial (copyright).

## No. 803. PERCENT OF TOTAL AND VOTING-AGE POPULATION AND OF POPULAR AND ELECTORAL VOTE FOR PRESIDENT, BY REGIONS AND STATES: 1980

REGION <sup>1</sup> AND STATE	Total population <sup>2</sup>	Voting-age population <sup>2</sup>	Popu-lar vote for Presi-dent	Electo-ral vote for Presi-dent	STATE	Total population <sup>2</sup>	Voting-age population <sup>2</sup>	Popu-lar vote for Presi-dent	Electo-ral vote for Presi-dent
U.S. ....	100.0	100.0	100.0	100.0	Minnesota.....	1.8	1.8	2.4	1.9
Northeast.....	21.7	22.2	22.2	22.7	Mississippi.....	1.1	1.0	1.0	1.3
North Central.....	26.0	25.8	29.1	27.0	Missouri.....	2.2	2.2	2.4	2.2
South.....	33.3	33.0	29.8	31.4	Montana.....	.3	.3	.4	.7
West.....	19.1	19.1	18.9	19.0	Nebraska.....	.7	.7	.7	.9
Alabama.....	1.7	1.7	1.6	1.7	Nevada.....	.4	.4	.3	.6
Alaska.....	.2	.2	.2	.6	New Hampshire.....	.4	.4	.4	.7
Arizona.....	1.2	1.2	1.0	1.1	New Jersey.....	3.3	3.3	3.4	3.2
Arkansas.....	1.0	1.0	1.0	1.1	New Mexico.....	.6	.5	.5	.7
California.....	10.4	10.6	9.9	8.4	New York.....	7.8	7.9	7.2	7.6
Colorado.....	1.3	1.3	1.4	1.3	North Carolina.....	2.6	2.6	2.1	2.4
Connecticut.....	1.4	1.4	1.6	1.5	North Dakota.....	.3	.3	.3	.6
Delaware.....	.3	.3	.3	.6	Ohio.....	4.8	4.7	5.0	4.6
District of Columbia.....	.3	.3	.2	.6	Oklahoma.....	1.3	1.3	1.3	1.5
Florida.....	4.3	4.5	4.3	3.2	Oregon.....	1.2	1.2	1.4	1.1
Georgia.....	2.4	2.3	1.8	2.2	Pennsylvania.....	5.2	5.4	5.3	5.0
Hawaii.....	.4	.4	.4	.7	Rhode Island.....	.4	.4	.5	.7
Idaho.....	.4	.4	.5	.7	South Carolina.....	1.4	1.3	1.0	1.5
Illinois.....	5.0	5.0	5.5	4.8	South Dakota.....	.3	.3	.4	.9
Indiana.....	2.4	2.4	2.6	2.4	Tennessee.....	2.0	2.0	1.9	1.9
Iowa.....	1.3	1.3	1.5	1.5	Texas.....	6.3	6.1	5.2	4.8
Kansas.....	1.0	1.1	1.1	1.3	Utah.....	.6	.6	.7	.7
Kentucky.....	1.6	1.6	1.5	1.7	Vermont.....	.2	.2	.2	.6
Louisiana.....	1.9	1.8	1.8	1.9	Virginia.....	2.4	2.4	2.2	2.2
Maine.....	.5	.5	.6	.7	Washington.....	1.8	1.8	2.0	1.7
Maryland.....	1.9	1.9	1.8	1.9	West Virginia.....	.9	.9	.9	1.1
Massachusetts.....	2.5	2.6	2.9	2.6	Wisconsin.....	2.1	2.1	2.6	2.0
Michigan.....	4.1	4.0	4.5	3.9	Wyoming.....	.2	.2	.2	.6

<sup>1</sup> For composition of regions, see fig. I, inside front cover. <sup>2</sup> Enumerated resident population as of April. Voting-age population covers persons 18 years old and over.

Source: Compiled from U.S. Bureau of the Census, 1980 Census of Population and Housing, Advance Reports, series PHC 80-V and unpublished data and Elections Research Center, Washington, D.C., *America Votes*, biennial (copyright).

## Elections

No. 804. VOTE CAST FOR MAJOR POLITICAL OFFICES, BY MAJOR PARTIES: 1960 TO 1980

YEAR AND OFFICE	Total vote cast (mil.)	DEMOCRATIC		REPUBLICAN		OTHER PARTIES		PLURALITY		
		Vote cast (mil.)	Per- cent	Vote cast (mil.)	Per- cent	Vote cast (mil.)	Per- cent	Party <sup>1</sup>	Vote (mil.)	Per- cent
1960: President.....	68.8	34.2	49.7	34.1	49.5	.5	.7	Dem.....	.1	.2
U.S. House of Rep. (381 dist. <sup>2</sup> ).....	69.3	34.7	54.8	28.4	44.8	3	.4	Dem.....	6.3	10.0
U.S. Senate (34 States).....	33.5	18.3	54.6	15.0	44.8	2	.6	Dem.....	3.3	9.8
State Governor (30 States).....	35.5	18.7	52.9	16.6	46.8	1	.3	Dem.....	2.1	6.0
1964: President.....	70.6	43.1	61.1	27.2	38.5	3	.5	Dem.....	16.0	22.6
U.S. House of Rep. (403 dist. <sup>2</sup> ).....	65.9	37.7	57.2	27.9	42.3	3	.5	Dem.....	9.8	14.9
U.S. Senate (34 States).....	51.5	29.0	56.3	22.1	42.9	.5	.9	Dem.....	6.8	13.4
State Governor (25 States).....	29.1	16.1	55.2	12.9	44.4	1	.4	Dem.....	3.2	10.9
1968: President.....	73.2	31.3	42.7	31.8	43.4	10.2	13.9	Rep.....	.5	.7
U.S. House of Rep. (398 dist. <sup>2</sup> ).....	66.1	33.0	50.0	31.9	48.2	1.2	1.8	Dem.....	1.2	1.8
U.S. Senate (34 States).....	50.8	25.0	49.2	24.2	47.5	1.7	3.3	Dem.....	.8	1.6
State Governor (22 States).....	22.7	11.8	51.8	10.8	47.9	.1	.3	Dem.....	.9	3.9
1972: President.....	77.7	29.2	37.5	47.2	60.7	1.4	1.8	Rep.....	18.0	23.2
U.S. House of Rep. (401 dist. <sup>2</sup> ).....	71.4	36.9	51.7	33.1	46.4	1.4	1.9	Dem.....	3.8	5.3
U.S. Senate (34 States).....	37.5	17.0	45.4	19.7	52.5	.8	2.1	Rep.....	2.7	7.2
State Governor (21 States).....	23.9	12.1	50.5	11.1	46.6	.7	2.9	Dem.....	.9	3.9
1976: President.....	81.6	40.8	50.1	39.1	48.0	1.6	1.9	Dem.....	1.7	2.1
U.S. House of Rep. (423 dist. <sup>2</sup> ).....	74.4	41.9	66.3	31.3	42.0	1.3	1.7	Dem.....	10.6	14.2
U.S. Senate (38 States).....	58.9	32.0	54.4	25.8	43.8	1.1	1.8	Dem.....	6.2	10.6
State Governor (14 States).....	15.7	7.7	48.8	7.9	50.4	.1	.9	Rep.....	.3	1.6
1980: President.....	86.5	36.5	41.0	43.9	50.7	7.1	8.2	Rep.....	8.4	9.7
U.S. House of Rep. (408 dist. <sup>2</sup> ).....	78.0	38.3	50.4	37.4	47.9	1.3	1.7	Dem.....	2.0	2.5
U.S. Senate (33 States).....	58.6	29.9	51.0	27.0	46.1	1.7	3.0	Dem.....	2.9	4.9
State Governor (13 States).....	11.9	5.9	49.8	5.9	49.8	(Z)	.4	Rep.....	(Z)	(Z)

<sup>Z</sup> Less than 50,000 or .05 percent. <sup>1</sup> See headnote, table 805. <sup>2</sup> Number of districts in which votes were tabulated.Source: Compiled by U.S. Bureau of the Census from Elections Research Center, Washington, D.C., *America Votes*, biennial (copyright).

No. 805. PERCENT POPULAR VOTE CAST FOR PRESIDENT AND FOR U.S. CONGRESS BY PARTY, AND PARTY COMPOSITION OF U.S. CONGRESS, BY REGION: 1964 TO 1980

(Dem.=Democratic Party, Rep.=Republican Party. Excludes minor parties and independents. For composition of regions, see fig. 1, inside front cover)

YEAR AND REGION	PERCENT VOTE CAST FOR—							PARTY COMPOSITION (seats held) <sup>1</sup>			
	President		House of Representa- tives		Senate			House of Represen- tatives		Senate	
	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Rep.
1964, U.S. ....	61.1	38.5	57.2	42.3	55.3	42.9	295	140	68	32	
Northeast.....	68.3	31.5	57.7	41.5	55.7	42.8	70	38	10	8	
North Central.....	61.3	36.5	53.8	46.1	56.8	43.0	66	59	15	9	
South.....	53.3	45.3	64.6	34.0	60.8	37.7	112	21	26	6	
West.....	58.4	40.4	53.6	46.4	52.3	47.7	47	22	17	9	
1968, U.S. ....	42.7	43.4	50.0	48.2	49.2	47.5	243	192	57	43	
Northeast.....	50.2	43.0	48.4	46.7	39.2	50.9	64	44	8	10	
North Central.....	43.7	46.8	45.8	54.1	49.5	50.2	46	79	13	11	
South.....	33.5	36.4	60.9	37.9	57.2	40.4	97	36	22	10	
West.....	43.7	48.7	45.7	53.2	52.5	46.4	36	33	14	12	
1972, U.S. ....	37.5	60.7	51.7	46.4	45.4	52.5	239	192	56	42	
Northeast.....	41.5	57.6	48.8	47.0	37.1	60.7	57	46	8	9	
North Central.....	39.4	59.1	48.2	50.9	44.0	55.0	50	70	15	9	
South.....	30.4	68.2	58.5	40.4	49.5	47.4	91	42	18	13	
West.....	39.1	57.2	53.0	45.8	46.1	52.9	41	34	15	11	
1976, U.S. ....	50.1	48.0	56.3	42.0	54.4	43.8	292	143	61	38	
Northeast.....	50.9	47.5	56.3	41.8	54.2	44.7	73	31	10	8	
North Central.....	48.3	49.7	52.3	46.7	53.3	44.5	68	53	16	8	
South.....	54.0	44.8	61.9	36.2	59.0	39.5	100	34	22	9	
West.....	45.7	51.0	54.7	43.0	51.2	45.9	51	25	13	13	
1980, U.S. ....	41.0	50.7	50.4	47.9	51.0	46.1	243	192	46	53	
Northeast.....	41.8	47.6	49.9	48.1	46.8	46.9	59	45	9	9	
North Central.....	40.8	50.9	48.2	51.2	53.7	44.9	58	63	10	14	
South.....	44.8	50.8	55.9	42.7	50.1	49.3	87	47	18	13	
West.....	34.4	54.0	47.1	49.7	51.9	43.9	39	37	9	17	

<sup>1</sup> For beginning of the first session of Congress following the year shown. Excludes vacant seats.Source: Compiled by U.S. Bureau of the Census from Elections Research Center, Washington, D.C., *America Votes*, biennial (copyright) and U.S. Congress, Joint Committee on Printing, *Congressional Directory*, biennial.

## Vote Cast for United States Senators

485

## No. 806. VOTE CAST FOR UNITED STATES SENATORS, BY MAJOR POLITICAL PARTIES—STATES: 1976 TO 1980

(In thousands, except percent. Excludes elections to fill vacancies for unexpired term)

STATE	1976			1978			1980					
	Total <sup>1</sup>	Democratic	Republi- can	Percent for lead- ing party	Total <sup>1</sup>	Democratic	Republi- can	Percent for lead- ing party	Total <sup>1</sup>	Democratic	Republi- can	Percent for lead- ing party
Alabama.....	(X)	(X)	(X)	(X)	582	547	-	94.0	1,297	610	650	50.2
Alaska.....	(X)	(X)	(X)	(X)	123	30	93	75.6	157	72	84	53.7
Arizona.....	741	400	321	54.0	(X)	(X)	(X)	874	423	432	49.6	
Arkansas.....	(X)	(X)	(X)	(X)	522	400	85	76.6	809	478	331	59.1
California.....	7,472	3,503	3,749	50.2	(X)	(X)	(X)	(X)	8,327	4,705	3,093	56.5
Colorado.....	(X)	(X)	(X)	(X)	819	330	481	58.7	1,174	591	571	50.3
Connecticut.....	1,362	561	786	57.7	(X)	(X)	(X)	(X)	1,356	764	582	56.3
Delaware.....	225	98	126	55.8	162	94	66	58.0	(X)	(X)	(X)	(X)
Florida.....	2,858	1,800	1,058	63.0	(X)	(X)	(X)	(X)	3,528	1,705	1,822	51.7
Georgia.....	(X)	(X)	(X)	(X)	645	536	109	82.1	1,580	776	804	50.9
Hawaii.....	302	162	123	63.7	(X)	(X)	(X)	(X)	288	224	53	77.9
Idaho.....	(X)	(X)	(X)	(X)	284	90	194	68.4	440	214	219	48.7
Illinois.....	(X)	(X)	(X)	(X)	3,185	1,448	1,699	53.3	4,580	2,565	1,946	56.0
Indiana.....	2,171	879	1,276	58.8	(X)	(X)	(X)	(X)	2,198	1,016	1,182	53.8
Iowa.....	(X)	(X)	(X)	(X)	825	395	422	51.1	1,277	582	683	53.5
Kansas.....	(X)	(X)	(X)	(X)	749	318	403	53.9	939	340	599	63.8
Kentucky.....	(X)	(X)	(X)	(X)	477	291	176	61.0	1,107	721	386	65.1
Louisiana.....	(X)	(X)	(X)	(X)	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Maine.....	486	293	193	60.2	375	127	212	56.6	(X)	(X)	(X)	(X)
Maryland.....	1,366	772	530	56.5	(X)	(X)	(X)	(X)	1,286	435	851	66.2
Massachusetts.....	2,491	1,727	723	69.3	1,986	1,093	891	55.1	(X)	(X)	(X)	(X)
Michigan.....	3,491	1,831	1,635	52.5	2,847	1,484	1,362	52.1	(X)	(X)	(X)	(X)
Minnesota.....	1,912	1,291	479	67.5	1,581	638	894	56.6	(X)	(X)	(X)	(X)
Mississippi.....	554	554	-	-	100.0	584	185	263	45.1	(X)	(X)	(X)
Missouri.....	1,915	814	1,090	56.9	(X)	(X)	(X)	(X)	2,057	1,075	985	52.0
Montana.....	321	206	115	64.2	288	160	128	55.7	(X)	(X)	(X)	(X)
Nebraska.....	598	314	284	52.4	494	334	180	67.6	(X)	(X)	(X)	(X)
Nevada.....	202	127	63	63.0	(X)	(X)	(X)	(X)	246	92	144	56.5
New Hampshire.....	(X)	(X)	(X)	(X)	264	128	134	50.7	375	179	186	52.1
New Jersey.....	2,771	1,681	1,055	60.7	1,958	1,063	844	55.3	(X)	(X)	(X)	(X)
New Mexico.....	413	176	235	56.8	344	160	183	53.4	(X)	(X)	(X)	(X)
New York.....	6,320	3,423	2,837	54.2	(X)	(X)	(X)	(X)	6,015	2,619	2,700	44.9
North Carolina.....	(X)	(X)	(X)	(X)	1,136	517	619	54.5	1,798	888	898	50.0
North Dakota.....	293	176	103	62.1	(X)	(X)	(X)	(X)	298	87	210	70.3
Ohio.....	3,921	1,941	1,824	49.5	(X)	(X)	(X)	(X)	4,027	2,771	1,138	68.8
Oklahoma.....	(X)	(X)	(X)	(X)	754	494	248	63.5	1,098	478	587	53.5
Oregon.....	(X)	(X)	(X)	(X)	893	342	550	61.6	1,140	502	584	52.1
Pennsylvania.....	4,546	2,127	2,982	52.4	(X)	(X)	(X)	(X)	4,418	2,122	2,230	50.5
Rhode Island.....	399	168	230	57.7	306	230	76	75.1	(X)	(X)	(X)	(X)
South Carolina.....	(X)	(X)	(X)	(X)	633	281	352	55.6	871	613	258	70.4
South Dakota.....	(X)	(X)	(X)	(X)	256	85	171	66.8	327	129	191	58.2
Tennessee.....	1,432	751	673	52.5	1,157	486	643	55.5	(X)	(X)	(X)	(X)
Texas.....	3,875	2,200	1,638	56.8	2,313	1,139	1,151	49.8	(X)	(X)	(X)	(X)
Utah.....	540	242	290	53.7	(X)	(X)	(X)	(X)	594	151	438	73.6
Vermont.....	189	86	94	50.0	(X)	(X)	(X)	(X)	209	104	101	49.8
Virginia.....	1,558	596	<sup>3</sup> 891	<sup>3</sup> 57.2	1,222	609	613	50.2	(X)	(X)	(X)	(X)
Washington.....	1,491	1,071	362	71.8	(X)	(X)	(X)	(X)	1,728	792	936	54.2
West Virginia.....	567	566	-	99.9	493	249	244	50.5	(X)	(X)	(X)	(X)
Wisconsin.....	1,935	1,397	522	72.2	(X)	(X)	(X)	(X)	2,204	1,065	1,106	50.2
Wyoming.....	155	71	85	54.6	133	50	83	62.2	(X)	(X)	(X)	(X)

- Represents zero. X Not applicable. <sup>1</sup> Includes vote cast for minor parties since name not printed on ballot. <sup>3</sup> Represents vote cast for independent candidate.<sup>2</sup> Unopposed Democrat; no vote talliedSource: Elections Research Center, Washington, D.C., *America Votes*, biennial (copyright).

## Elections

## No. 807. APportionment of Membership in House of Representatives, by States: 1790 to 1980

[Total membership includes Representatives assigned to newly admitted States after the apportionment acts. Population figures used for apportionment purposes are those determined for States by each decennial census. No reapportionment based on 1920 population census. For method of calculating apportionment and a short history of apportionment, see House Report 91-1314, 91st Congress, 2d session, *The Decennial Population Census and Congressional Apportionment*. See also *Historical Statistics, Colonial Times to 1970*, series Y 220-271.]

STATE	MEMBERSHIP BASED ON CENSUS OF—																		
	1790	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1930	1940	1950	1960	1970	1980
Total.....	106	142	186	213	242	232	237	243	293	332	357	391	435	435	435	437	435	435	435
Ala.....	(x)	(x)	1 1	3	5	7	7	6	8	8	9	9	10	9	9	9	9	8	7
Alaska.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	1 1	1	1	1
Ariz.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	2 1	1	2	2	3	4	5
Ark.....	(x)	(x)	(x)	(x)	(x)	1 1	1	2	3	4	5	6	7	7	7	6	4	4	4
Calif.....	(x)	(x)	(x)	(x)	(x)	(x)	1 2	2	3	4	6	7	8	11	20	23	30	38	43
Colo.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	1 1	1	2	3	4	4	4	4	4	5
Conn.....	7	7	7	6	6	4	4	4	4	4	4	5	5	6	6	6	6	6	6
Del.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fla.....	(x)	(x)	(x)	(x)	(x)	1 1	1	1	2	2	3	4	5	6	6	8	12	15	19
Ga.....	2	4	6	7	9	8	8	7	9	10	11	11	12	10	10	10	10	10	10
Hawaii.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	1 1	2	2	2
Idaho.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	1 1	2	2	2	2	2	2
Ill.....	(x)	(x)	1 1	3	7	9	14	19	20	22	25	27	27	26	25	24	24	22	22
Ind.....	(x)	(x)	1 1	3	7	10	11	11	13	13	13	13	12	11	11	11	11	10	10
Iowa.....	(x)	(x)	(x)	(x)	1 2	2	6	9	11	11	11	9	8	8	8	7	6	6	6
Kans.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	6	6	5	5
Ky.....	2	6	10	12	13	10	10	9	10	11	11	11	11	9	8	7	7	7	8
La.....	(x)	(x)	1 1	3	3	4	4	5	6	6	6	7	7	8	8	8	8	8	8
Maine.....	(x)	(x)	(x)	7	6	7	6	5	5	5	4	4	4	3	3	2	2	2	2
Md.....	8	9	9	9	8	6	6	5	6	6	6	6	6	6	6	7	8	8	8
Mass.....	14	17	20	13	12	10	11	10	11	12	13	14	16	15	14	14	12	11	18
Mich.....	(x)	(x)	(x)	(x)	1 1	3	4	6	9	11	12	13	17	17	18	19	19	18	18
Minn.....	(x)	(x)	(x)	(x)	(x)	(x)	1 2	2	3	5	7	9	10	9	9	9	8	8	8
Miss.....	(x)	(x)	1 1	1	2	4	5	5	6	7	7	8	8	7	7	6	5	5	5
Mo.....	(x)	(x)	(x)	1	2	5	7	9	13	14	15	16	16	13	13	11	10	10	9
Mont.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	1 1	1	1	1	2	2	2	2	2	2
Nebr.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	1 1	1	3	6	6	5	4	4	3	3
Nev.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	1 1	1	1	1	1	1	1	1	1	2
N.H.....	4	5	6	6	5	4	3	3	3	2	2	2	2	2	2	2	2	2	2
N.J.....	5	6	6	6	6	5	5	5	7	7	8	10	12	14	14	14	15	15	14
N. Mex.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	2 1	1	2	2	2	3
N.Y.....	10	17	27	34	40	34	33	31	33	34	34	37	43	45	45	43	41	39	34
N.C.....	10	12	13	13	13	9	8	7	8	9	9	10	10	11	12	12	11	11	11
N. Dak.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	1 1	1	2	3	2	2	2	2	2	1
Ohio.....	(x)	1 1	6	14	19	21	21	19	20	21	21	21	22	24	23	23	24	23	21
Okla.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	1 5	8	9	8	6	6	6
Oreg.....	(x)	(x)	(x)	(x)	(x)	(x)	1 1	1	1	1	2	2	3	3	4	4	4	4	5
Pa.....	13	16	23	26	28	24	25	24	27	28	30	32	36	34	33	30	27	25	23
R.I.....	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2
S.C.....	6	8	9	9	9	7	6	4	5	7	7	7	7	6	6	6	6	6	6
S. Dak.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	1 2	2	2	3	2	2	2	2	2	1
Tenn.....	1 1	3	6	9	13	11	10	8	10	10	10	10	10	9	10	9	8	8	9
Tex.....	(x)	(x)	(x)	(x)	(x)	(x)	1 2	2	4	6	11	13	16	18	21	21	22	23	27
Utah.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	1 1	1	2	2	2	2	2	2	3
Vt.....	2	4	6	5	5	4	3	3	3	2	2	2	2	1	1	1	1	1	1
Va.....	19	22	23	22	21	15	13	11	9	10	10	10	10	9	9	10	10	10	10
Wash.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	1 1	2	3	5	6	6	7	7	8
W. Va.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	3	4	4	5	6	6	5	4	4
Wis.....	(x)	(x)	(x)	(x)	(x)	(x)	1 2	3	6	8	9	10	11	11	10	10	10	9	9
Wyo.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	1 1	1	1	1	1	1	1	1	1

X Not applicable. <sup>1</sup> Assigned after apportionment. <sup>2</sup> Included in apportionment act in anticipation of statehood.

Source: U.S. Bureau of the Census, *Census of Population: 1970*, vol. I, and press release.

# Population of Congressional Districts

487

## No. 808. POPULATION, 1970 AND 1980, OF CONGRESSIONAL DISTRICTS FOR THE 97TH CONGRESS, BY DIFFERENCES IN SIZE—STATES

[As of April 1. Based on total resident population. Excludes District of Columbia; see text, p. 477]

STATE	1970 POPULATION				1980 POPULATION				Year of last redistricting prior to 97th Congress		
	Average (1,000)	Smallest district		Largest district		Average (1,000)	Smallest district		Largest district		
		Number (1,000)	Percent below average	Number (1,000)	Percent above average		Number (1,000)	Percent below average	Number (1,000)	Percent above average	
United States.....	466	303	35.0	618	32.7	519	234	55.0	880	69.5	(x)
Alabama.....	492	490	.5	494	.3	556	518	6.8	595	7.1	1972
Alaska <sup>1</sup> .....	<sup>a</sup> 902	(x)	(x)	(x)	(x)	<sup>a</sup> 400	(x)	(x)	(x)	(x)	(x)
Arizona.....	443	443	.1	444	.1	679	626	8.1	746	9.7	1971
Arkansas.....	481	480	.2	481	.1	571	521	8.7	639	11.8	1971
California.....	464	463	.4	467	.5	550	499	20.2	867	57.5	1973
Colorado.....	441	439	.5	442	.2	578	427	26.1	665	15.0	1972
Connecticut.....	505	505	(z)	505	(z)	518	478	7.7	542	4.7	1972
Delaware <sup>1</sup> .....	<sup>a</sup> 548	(x)	(x)	(x)	(x)	<sup>a</sup> 595	(x)	(x)	(x)	(x)	(x)
Florida.....	453	452	.1	453	.1	649	469	27.7	880	35.5	1972
Georgia.....	459	456	.7	461	.4	546	420	23.1	661	20.9	1972
Hawaii.....	385	362	5.8	408	5.9	483	394	18.3	571	18.3	1969
Idaho.....	357	356	.1	357	.1	472	451	4.4	493	4.4	1971
Illinois.....	463	460	.7	466	.6	476	370	22.3	626	31.5	1971
Indiana.....	472	472	.1	473	.1	499	427	14.5	572	14.5	1972
Iowa.....	471	469	.4	472	.2	486	465	4.3	506	4.2	1971
Kansas.....	460	447	.6	454	.9	473	449	5.0	493	4.2	1971
Kentucky.....	460	459	.2	461	.2	523	393	24.8	566	8.3	1972
Louisiana.....	455	455	.1	456	.2	525	463	12.0	577	9.8	1972
Maine.....	497	496	.2	498	.2	562	543	3.4	601	3.4	1971
Maryland.....	490	483	1.6	495	1.0	527	420	20.2	631	19.8	1972
Massachusetts.....	474	469	1.0	477	.6	478	426	10.8	585	22.3	1971
Michigan.....	467	465	.4	468	.1	487	291	40.2	580	19.0	1972
Minnesota.....	476	473	.6	479	.8	510	415	18.6	556	9.1	1971
Mississippi.....	443	434	2.2	452	1.9	504	461	8.6	550	9.0	1972
Missouri.....	468	467	.2	470	.4	482	347	29.4	570	16.0	1972
Montana.....	347	347	.1	347	.1	393	377	4.3	410	4.3	1971
Nebraska.....	485	494	.1	495	.1	523	516	1.4	529	1.0	1968
Nevada <sup>1</sup> .....	<sup>a</sup> 489	(x)	(x)	(x)	(x)	<sup>a</sup> 799	(x)	(x)	(x)	(x)	(x)
New Hampshire.....	369	367	.5	371	.5	460	450	2.3	471	2.3	1972
New Jersey.....	478	475	.6	480	.4	491	426	13.2	611	24.4	1972
New Mexico.....	508	505	.6	511	.6	650	635	2.2	665	2.2	1968
New York.....	468	467	.2	469	.3	450	234	48.1	604	34.1	1974
North Carolina.....	462	454	1.7	472	2.1	534	500	6.4	579	8.4	1972
North Dakota <sup>1</sup> .....	<sup>a</sup> 618	(x)	(x)	(x)	(x)	<sup>a</sup> 653	(x)	(x)	(x)	(x)	(x)
Ohio.....	463	462	.2	465	.3	469	352	25.0	544	15.8	1972
Oklahoma.....	427	426	.2	427	.2	504	460	8.9	542	7.6	1972
Oregon.....	523	522	.1	523	.1	658	541	17.8	707	7.4	1971
Pennsylvania.....	472	468	.8	478	1.4	475	386	18.2	542	14.2	1972
Rhode Island.....	475	474	.1	475	.1	474	463	2.3	484	2.9	1972
South Carolina.....	432	411	4.8	446	3.4	520	489	5.8	560	7.7	1971
South Dakota.....	333	333	(z)	333	(z)	345	344	.4	347	.4	1971
Tennessee.....	491	472	3.7	513	4.6	574	426	25.7	659	14.9	1972
Texas.....	467	466	.1	467	.1	590	423	28.4	862	46.1	1973
Utah.....	530	530	(z)	530	(z)	731	718	1.7	743	1.7	1971
Vermont <sup>1</sup> .....	<sup>a</sup> 445	(x)	(x)	(x)	(x)	<sup>a</sup> 511	(x)	(x)	(x)	(x)	(x)
Virginia.....	465	463	.4	466	.2	535	494	7.6	600	12.2	1972
Washington.....	487	478	1.8	523	7.3	580	470	20.3	695	17.8	1972
West Virginia.....	436	434	.4	438	.4	487	461	5.5	523	7.3	1971
Wisconsin.....	491	491	(z)	491	(z)	523	439	16.0	579	10.7	1971
Wyoming <sup>1</sup> .....	<sup>a</sup> 332	(x)	(x)	(x)	(x)	<sup>a</sup> 471	(x)	(x)	(x)	(x)	(x)

X Not applicable. Z Less than .05 percent.

<sup>1</sup> Representative elected at large.

<sup>2</sup> Total State population.

Source: U.S. Bureau of the Census, *Congressional District Data Book*, *Districts of the 93d Congress*, and reports for *Districts of the 94th Congress* for California, New York, and Texas; and 1980 Census of Population and Housing, *Advance Reports*.

## Elections

NO. 809. VOTE CAST FOR UNITED STATES REPRESENTATIVES, BY MAJOR POLITICAL PARTIES—  
STATES: 1976 TO 1980

[In thousands, except percent. In each State, totals represent the sum of votes cast in each Congressional District, except as follows: In Alaska, Delaware, Nevada, North Dakota, Vermont, and Wyoming, only 1 Representative was elected for the State at large. In numerous States, one or other of the major parties had no candidate in some districts. In those cases where votes of a party as such are cast in endorsement of a candidate of another party, votes are counted as for the endorsing party. See also *Historical Statistics, Colonial Times to 1970*, series Y 211-214.]

STATE	1976			1978			1980					
	Total <sup>1</sup>	Democratic	Republi-can	Per-cent for lead-ing party	Total <sup>1</sup>	Democratic	Republi-can	Per-cent for lead-ing party	Total <sup>1</sup>	Democratic	Republi-can	Per-cent for lead-ing party
<b>Total <sup>2</sup></b>	<b>74,422</b>	<b>41,884</b>	<b>31,264</b>	<b>56.3</b>	<b>55,332</b>	<b>29,688</b>	<b>24,849</b>	<b>53.7</b>	<b>77,995</b>	<b>39,338</b>	<b>37,370</b>	<b>50.4</b>
Alabama <sup>3</sup>	884	667	315	67.8	642	440	197	66.4	1,012	628	354	62.1
Alaska	118	34	84	70.8	124	55	69	55.4	155	40	114	73.8
Arizona	729	358	340	48.8	519	262	231	50.4	854	394	434	50.8
Arkansas <sup>4</sup>	336	261	75	77.6	293	98	195	66.6	202	42	159	78.9
California	7,454	4,144	3,220	55.6	6,526	3,335	3,106	51.1	8,180	3,666	4,179	51.1
Colorado	1,021	455	537	53.1	785	369	402	51.2	1,150	506	619	53.9
Connecticut	1,348	682	651	50.6	1,021	592	423	58.0	1,339	685	640	51.9
Delaware	215	102	111	51.5	158	65	92	58.2	217	81	134	61.8
District of Columbia	160	123	22	77.3	98	77	21	70.5	151	112	21	74.4
Florida <sup>4</sup>	2,083	1,126	937	54.1	1,620	948	672	58.5	3,094	1,813	1,276	58.6
Georgia <sup>4</sup>	1,253	931	322	74.3	589	472	118	80.2	1,355	974	381	71.9
Hawaii	294	184	78	82.7	253	203	40	80.1	281	240	20	85.4
Idaho	342	162	180	52.6	285	118	167	58.6	415	182	233	56.1
Illinois	4,386	2,247	2,113	51.6	3,044	1,465	1,577	51.8	4,473	2,049	2,418	54.1
Indiana	2,103	1,166	932	55.5	1,449	752	681	51.9	2,189	1,087	1,100	50.2
Iowa	1,242	709	527	57.1	812	403	406	50.1	1,257	643	609	51.1
Kansas	909	349	545	60.0	676	233	441	65.2	933	405	520	55.7
Kentucky <sup>4</sup>	989	606	374	61.2	477	265	208	55.5	1,056	610	442	57.8
Louisiana	1,014	624	365	61.5	770	472	290	76.1	730	437	290	75.9
Maine	473	151	315	66.5	370	141	208	56.5	513	138	375	73.1
Maryland	1,316	789	473	60.0	924	604	313	65.4	1,403	866	537	61.7
Massachusetts <sup>3</sup>	2,345	1,510	723	64.4	1,809	1,249	472	69.0	2,256	1,473	758	65.3
Michigan	3,432	1,898	1,503	55.3	2,708	1,539	1,150	56.8	3,588	1,877	1,659	52.3
Minnesota	1,795	1,040	730	58.0	1,526	779	712	51.1	1,905	906	987	51.8
Mississippi <sup>3</sup>	687	375	257	59.0	519	252	236	48.5	789	428	304	54.3
Missouri	1,905	1,081	812	56.7	1,548	967	576	62.5	2,051	1,110	941	54.1
Montana	321	180	140	56.2	283	143	140	50.6	339	176	182	52.1
Nebraska	602	211	386	64.1	495	184	311	62.8	625	167	451	72.2
Nevada	200	164	24	77.1	191	133	44	69.5	245	165	63	87.5
New Hampshire	325	174	149	53.4	258	122	134	51.7	364	177	187	51.3
New Jersey	2,811	1,539	1,218	54.7	1,934	1,044	888	54.0	2,741	1,316	1,369	49.9
New Mexico	401	185	215	53.5	285	166	118	58.5	408	176	187	45.9
New York <sup>4</sup>	5,981	3,501	2,342	58.4	4,379	2,725	1,983	51.9	5,617	2,771	2,707	49.3
North Carolina <sup>3</sup>	1,572	1,011	549	64.3	1,020	627	406	59.5	1,737	964	769	55.5
North Dakota	290	104	181	62.4	220	68	148	67.1	293	166	125	65.8
Ohio <sup>3</sup>	3,842	1,818	1,917	49.8	2,780	1,278	1,472	52.9	3,952	1,788	2,136	54.0
Oklahoma <sup>4</sup>	1,068	683	372	64.0	589	331	258	56.2	836	440	391	52.6
Oregon	927	599	263	64.7	874	587	258	67.2	1,105	657	439	59.4
Pennsylvania <sup>3</sup>	4,434	2,410	2,007	54.4	3,542	1,805	1,711	51.0	4,321	2,056	2,162	50.0
Rhode Island	389	271	114	69.7	308	174	134	56.6	387	214	173	55.3
South Carolina	784	502	279	64.1	577	379	183	65.6	831	408	398	48.2
South Dakota	295	73	221	75.0	256	120	135	53.0	320	173	146	54.3
Tennessee <sup>3</sup>	1,251	775	453	62.9	1,062	581	449	54.7	1,304	664	619	50.9
Texas <sup>3</sup>	3,683	2,369	1,277	64.7	2,182	1,285	888	58.9	4,069	2,405	1,809	59.1
Utah	544	267	251	49.0	379	163	207	54.5	592	232	352	58.4
Vermont	185	60	124	67.4	121	23	81	75.3	195	—	154	79.2
Virginia <sup>4</sup>	1,463	666	670	45.8	1,057	444	595	56.3	1,553	486	1,005	64.7
Washington	1,426	818	586	57.4	979	507	451	51.8	1,626	816	793	50.2
West Virginia	663	447	157	67.3	443	291	152	65.7	686	391	295	57.0
Wisconsin	1,982	1,190	761	60.7	1,450	769	676	58.0	2,134	1,072	1,055	50.2
Wyoming	152	86	66	56.4	129	54	76	58.6	170	53	116	68.6

<sup>1</sup> Represents zero. <sup>2</sup> Includes vote cast for minor parties. <sup>3</sup> 1980 data not available for unopposed candidates in the following number of districts: Ala. 1, Ga. 2, Ky. 2, Mass. 3, Columb. 3, N.C. 1, Ohio 2, Pa. 1, Tenn. 2, Tex. 4, and Va. 3. <sup>4</sup> State law does not require tabulation of votes for unopposed candidates. <sup>5</sup> 1976 data for 1st and 2d Districts; 1978 data for 2d and 3d Districts; 1980 data for 2d District only. <sup>6</sup> In 1976, Districts 1, 2, 3, and 4 were unopposed; in 1978, Districts 3, 7, 8, 10, and 13 were unopposed; in 1980, District 6 was unopposed. <sup>7</sup> Data are for September open primary. <sup>8</sup> Includes endorsing votes cast by other parties for Democratic and Republican candidates. <sup>9</sup> In 1978 and 1980, District 3 was unopposed.

Source: Compiled by U.S. Bureau of the Census. Data from Elections Research Center, Washington, D.C., *America Votes*, biennial (copyright).

**NO. 810. REPRESENTATIVES ELECTED, BY PERCENT OF VOTE CAST FOR WINNER AND MAJOR PARTY,  
1970 TO 1980, AND BY STATES, 1980**

YEAR AND STATE	TOTAL REPRESENTATIVES ELECTED				DEMOCRATS ELECTED			REPUBLICANS ELECTED			REPRESENTATIVES ELECTED WITH NO MAJOR PARTY OPPOSITION				
	Total	Percentage of vote			Total	Percentage of vote			Total	Percentage of vote			Total	Democ- rats	Republi- cans
		Under 55	55- 59.9	60 and over		Under 55	55- 59.9	60 and over		Under 55	55- 59.9	60 and over			
1970	435	59	64	312	255	28	26	201	180	31	38	111	63	58	5
1972	435	167	60	308	242	28	29	185	192	38	31	123	54	46	8
1974	435	105	69	261	291	48	34	209	144	57	35	52	60	59	1
1976	435	76	62	297	292	52	32	208	143	24	30	89	52	46	6
1978	435	74	61	300	277	46	36	195	158	28	25	105	70	51	19
<b>1980, total</b>	<b>435</b>	<b>78</b>	<b>63</b>	<b>294</b>	<b>243</b>	<b>35</b>	<b>35</b>	<b>173</b>	<b>192</b>	<b>43</b>	<b>28</b>	<b>121</b>	<b>54</b>	<b>39</b>	<b>15</b>
Ala.	7	1	-	6	4	-	-	4	3	1	-	2	4	3	1
Alaska	1	-	-	1	-	-	-	1	-	-	1	-	-	-	-
Ariz.	4	-	1	3	2	-	1	1	2	-	-	2	-	-	-
Ark.	4	-	-	4	2	-	2	2	2	-	-	2	3	2	1
Calif.	43	10	4	29	22	3	4	15	21	7	-	14	-	-	-
Colo.	5	1	2	2	3	1	2	-	2	-	-	2	-	-	-
Conn.	6	3	1	2	4	2	1	1	2	1	-	1	-	-	-
Del.	1	-	-	1	1	-	-	-	1	-	-	1	-	-	-
Fla.	15	1	2	12	11	-	1	10	4	1	1	2	1	-	1
Ga.	10	-	1	9	9	-	-	9	1	-	1	-	2	2	-
Hawaii	2	-	-	2	2	-	-	2	-	-	1	-	1	1	-
Idaho	2	1	1	-	-	-	-	-	2	1	1	-	-	-	-
Ill.	24	1	1	22	10	1	-	9	14	-	1	13	-	-	-
Ind.	11	3	3	5	6	3	1	2	5	-	2	3	-	-	-
Iowa	6	3	-	3	3	1	-	2	3	2	-	1	-	-	-
Kans.	5	1	1	3	1	-	-	4	1	1	1	2	-	-	-
Ky.	7	-	1	6	4	-	-	4	1	-	1	2	2	2	2
La.	8	-	-	8	*6	-	-	*6	2	-	1	8	-	6	2
Maine	2	-	-	2	-	-	-	-	2	-	-	2	-	-	-
Md.	8	1	2	5	7	1	2	4	1	-	-	1	-	-	-
Mass.	12	2	-	10	10	2	-	8	2	-	-	2	3	3	1
Mich.	19	5	2	12	12	3	1	8	7	2	1	4	2	2	1
Minn.	8	2	1	5	3	1	1	4	2	1	-	3	1	-	-
Miss.	5	1	-	4	3	-	-	3	2	1	1	1	-	-	-
Mo.	10	-	3	7	6	-	1	5	4	-	2	2	-	-	-
Mont.	2	-	1	1	1	-	-	1	1	1	-	1	-	-	-
Nebr.	3	1	-	2	-	-	-	-	3	1	-	2	-	-	-
Nev.	1	-	-	1	1	-	-	1	-	-	-	1	-	-	-
N.H.	2	-	-	2	1	-	-	1	1	-	-	1	-	-	-
N.J.	15	3	4	8	8	2	1	5	7	1	3	3	-	-	-
N. Mex.	2	2	-	-	-	-	-	-	2	2	-	4	-	4	-
N.Y.	39	5	8	26	22	2	5	15	17	3	3	11	4	4	-
N.C.	11	4	2	5	7	2	1	4	4	2	1	1	1	1	-
N. Dak.	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-
Ohio	23	2	5	16	10	1	3	6	13	1	2	10	2	2	-
Okla.	6	2	1	3	5	2	1	2	1	-	1	1	1	1	-
Oreg.	4	2	-	2	3	1	-	2	1	-	1	-	1	-	-
Pa.	25	6	2	17	13	3	1	9	12	3	1	8	2	1	1
R.I.	2	-	1	1	1	-	-	1	1	-	-	1	-	-	-
S.C.	6	2	2	2	2	-	1	1	4	2	1	1	2	1	1
S. Dak.	2	-	1	1	1	-	-	1	1	-	1	-	5	1	4
Tenn.	8	-	-	8	5	-	-	5	3	-	3	3	3	1	2
Texas	24	4	4	16	19	2	4	13	5	2	-	3	6	6	-
Utah	2	-	1	-	1	-	-	-	2	1	-	1	-	-	-
Vt.	1	-	-	1	-	-	-	-	1	-	-	1	1	-	1
Va.	10	3	-	7	1	-	-	-	1	9	3	-	6	5	1
Wash.	7	2	2	3	5	2	1	2	2	1	1	1	-	-	-
W. Va.	4	1	1	2	2	-	-	2	2	1	1	2	-	-	-
Wis.	9	2	2	5	5	1	1	3	4	1	1	1	2	-	-
Wyo.	1	-	-	1	-	-	-	-	1	-	-	1	-	-	-

- Represents zero. <sup>1</sup> Includes one Representative elected as an Independent.

<sup>2</sup> There were 2 Democratic candidates in the 4th District.

Source: Compiled by U.S. Bureau of the Census from Congressional Quarterly, Inc., Washington, D.C., *Congressional Quarterly Weekly Report*, No. 13, March 1978 and vol. 39, No. 17, April 5, 1981 (copyright).

## Elections

## NO. 811. COMPOSITION OF CONGRESS, BY POLITICAL PARTY: 1939 TO 1981

[D=Democratic, R=Republican. Data for beginning of first session of each Congress; exclude vacancies at beginning of session.  
See also *Historical Statistics, Colonial Times to 1970*, series Y 204-210]

YEAR	Party and President	Congress	HOUSE			SENATE		
			Majority party	Minority party	Other	Majority party	Minority party	Other
1939	D (F. Roosevelt)	78th	D-261	R-164	4	D-69	R-23	4
1941	D (F. Roosevelt)	77th	D-268	R-162	5	D-66	R-28	2
1943	D (F. Roosevelt)	78th	D-218	R-208	4	D-58	R-37	1
1945	D (F. Roosevelt)	79th	D-242	R-190	2	D-58	R-38	1
1947	D (Truman)	80th	R-245	D-188	1	R-51	D-45	-
1949	D (Truman)	81st	D-263	R-171	1	D-54	R-42	-
1951	D (Truman)	82d	D-234	R-199	1	D-49	R-47	-
1953	R (Eisenhower)	83d	R-221	D-211	1	R-48	D-47	1
1955	R (Eisenhower)	84th	D-232	R-203	-	D-48	R-47	1
1957	R (Eisenhower)	85th	D-233	R-200	-	D-49	R-47	-
1959 <sup>1</sup>	R (Eisenhower)	86th	D-284	R-153	-	D-65	R-35	-
1961	D (Kennedy)	87th	D-263	R-174	-	D-65	R-35	-
1963	D (Kennedy)	88th	D-258	R-177	-	D-67	R-33	-
1965	D (Johnson)	89th	D-285	R-140	-	D-68	R-32	-
1967	D (Johnson)	90th	D-247	R-187	-	D-64	R-36	-
1969	R (Nixon)	91st	D-243	R-192	-	D-57	R-43	-
1971 <sup>2</sup>	R (Nixon)	92d	D-254	R-180	-	D-54	R-44	2
1973 <sup>2,3</sup>	R (Nixon) <sup>4</sup>	93d	D-239	R-192	1	D-56	R-42	2
1975 <sup>5</sup>	R (Ford) <sup>4</sup>	94th	D-291	R-144	-	D-60	R-37	2
1977	D (Carter)	95th	D-292	R-143	-	D-61	R-38	1
1979 <sup>6</sup>	D (Carter)	96th	D-276	R-157	-	D-58	R-41	1
1981 <sup>6</sup>	R (Reagan)	97th	D-243	R-192	-	R-53	D-46	1

<sup>-</sup> Represents zero. <sup>1</sup> Includes Hawaii; members seated Aug. 1959. <sup>2</sup> Senate had 1 Independent and 1 Conservative-Republican. <sup>3</sup> House had 1 Independent-Democrat. <sup>4</sup> Nixon resigned Aug. 1974. <sup>5</sup> Senate had 1 Independent, 1 Conservative-Republican, and 1 undecided (New Hampshire). <sup>6</sup> Senate had 1 independent.

Source: U.S. Congress, Joint Committee on Printing, *Congressional Directory*, annual; beginning 1977, biennial.

## NO. 812. CONGRESSIONAL BILLS, ACTS, AND RESOLUTIONS: 1963 TO 1980

[Excludes simple and concurrent resolutions. See also *Historical Statistics, Colonial Times to 1970*, series Y 189-198]

ITEM	88th Cong., 1963-64	89th Cong., 1965-66	90th Cong., 1967-68	91st Cong., 1969-70	92d Cong., 1971-72	93d Cong., 1973-74	94th Cong., 1975-76	95th Cong., 1977-78	96th Cong., 1979-80
Measures introduced...	17,480	24,003	26,460	26,303	22,969	23,396	21,095	19,887	12,583
Bills .....	16,079	22,483	24,786	24,631	21,383	21,950	19,762	18,045	11,722
Joint resolutions...	1,401	1,520	1,674	1,672	1,606	1,446	1,334	1,342	861
Measures enacted...	1,026	1,283	1,002	941	768	774	729	803	736
Public...	666	810	640	695	607	651	588	633	613
Private...	360	473	362	246	161	123	141	170	123

Source: U.S. Congress, *Calendars of the U.S. House of Representatives and History of Legislation*, annual.

## NO. 813. CONGRESSIONAL BILLS VETOED: 1923 TO 1981

[See also *Historical Statistics, Colonial Times to 1970*, series Y 199-203]

PERIOD	President	Total vetoes	Regular vetoes	Pocket vetoes	Vetoes sustained	Bills passed over veto
1923-1929	Coolidge	50	20	30	46	4
1929-1933	Hoover	37	21	16	34	3
1933-1945	F. Roosevelt	635	372	263	626	9
1945-1953	Truman	250	180	70	238	12
1953-1961	Eisenhower	181	73	108	179	2
1961-1963	Kennedy	21	12	9	21	-
1963-1969	Johnson	30	16	14	30	-
1969-1974	Nixon <sup>1</sup>	42	24	18	36	6
1974-1977	Ford <sup>1</sup>	72	53	19	60	12
1977-1981	Carter	31	13	18	29	2

<sup>-</sup> Represents zero. <sup>1</sup> Nixon resignation effective August 8, 1974.

Source: U.S. Congress, Senate Library, *Presidential Vetoes . . . 1789-1968*; U.S. Congress, *Calendars of the U.S. House of Representatives and History of Legislation*, annual.

## NO. 814. COMPOSITION OF CONGRESS, BY POLITICAL PARTY AFFILIATIONS—STATES: 1975 TO 1981

[Figures are for the beginning of the first session. Dem.=Democratic; Rep.=Republican]

STATE	REPRESENTATIVES								SENATORS							
	94th Cong., 1975		95th Cong., 1977		96th Cong., 1979		97th Cong., 1981		94th Cong., 1975		95th Cong., 1977		96th Cong., 1979		97th Cong., 1981	
	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.
Total.....	291	144	292	143	276	157	243	192	60	37	61	38	58	41	46	53
Alabama.....	4	3	4	3	4	3	4	3	2	-	2	-	2	-	1	1
Alaska.....	-	1	-	1	-	1	-	1	1	1	1	1	1	-	2	-
Arizona.....	1	3	2	2	2	2	2	2	-	2	1	1	1	1	1	1
Arkansas.....	3	1	3	1	2	2	2	2	2	-	2	-	2	-	2	-
California.....	28	15	29	14	25	17	22	21	2	-	1	1	1	1	1	1
Colorado.....	3	2	3	2	3	2	3	2	2	-	2	-	1	1	1	1
Connecticut.....	4	2	4	2	5	1	4	2	1	1	1	1	1	1	1	1
Delaware.....	-	1	-	1	-	1	-	1	1	1	1	1	1	1	1	1
Florida.....	10	5	10	5	12	3	11	4	2	-	2	-	2	-	1	1
Georgia.....	10	-	10	-	9	1	9	1	2	-	2	-	2	-	1	1
Hawaii.....	2	-	2	-	2	-	2	-	1	1	2	-	2	-	2	-
Idaho.....	-	2	-	2	-	2	-	2	1	1	1	1	1	1	1	2
Illinois.....	13	11	12	12	11	13	10	14	1	1	1	1	1	1	1	1
Indiana.....	9	2	8	3	7	4	6	5	2	-	1	1	1	1	1	-
Iowa.....	5	1	4	2	3	3	3	3	2	-	2	-	1	1	1	2
Kansas.....	1	4	2	3	1	4	1	4	-	2	-	2	-	2	-	2
Kentucky.....	5	2	5	2	4	3	4	3	2	-	2	-	2	-	2	-
Louisiana.....	6	2	6	2	5	3	6	2	2	-	2	-	2	-	1	-
Maine.....	-	2	2	-	2	-	2	-	2	-	2	-	1	1	1	1
Maryland.....	5	3	5	3	6	2	7	1	-	2	1	1	1	1	1	1
Massachusetts.....	10	2	10	2	10	2	10	2	1	1	1	1	2	-	2	-
Michigan.....	12	7	11	8	13	6	12	7	1	1	1	1	2	-	2	-
Minnesota.....	5	3	5	3	4	4	3	5	2	-	2	-	1	-	2	-
Mississippi.....	3	2	3	2	3	2	3	2	2	-	2	-	1	1	1	1
Missouri.....	9	1	8	2	8	2	6	4	2	-	1	1	1	1	1	1
Montana.....	2	-	1	1	1	1	1	1	2	-	2	-	2	-	2	-
Nebraska.....	-	3	1	2	1	2	1	3	-	2	1	1	2	-	2	-
Nevada.....	1	-	1	-	1	-	1	-	1	1	1	1	1	1	1	2
New Hampshire.....	1	1	1	1	1	1	1	1	-	2	-	1	1	1	1	2
New Jersey.....	12	3	11	4	10	5	8	7	1	1	1	1	2	-	2	-
New Mexico.....	1	1	1	1	1	1	1	1	-	2	-	2	-	2	-	2
New York.....	27	12	28	11	26	13	22	17	-	1	1	1	1	1	1	1
North Carolina.....	9	2	9	2	9	2	7	4	1	1	1	1	1	1	1	2
North Dakota.....	-	1	-	1	-	1	1	1	1	1	1	1	1	1	1	1
Ohio.....	8	15	10	13	10	13	10	13	1	1	2	-	2	-	2	-
Oklahoma.....	6	-	5	1	5	1	5	1	-	2	-	2	1	1	1	1
Oregon.....	4	-	4	-	4	-	3	1	-	2	-	2	2	-	2	-
Pennsylvania.....	14	11	17	8	15	10	13	12	1	-	1	1	1	1	1	1
Rhode Island.....	2	-	2	-	2	-	1	1	1	-	2	-	2	-	2	-
South Carolina.....	5	1	5	1	4	2	2	4	1	1	1	1	1	1	1	1
South Dakota.....	-	2	-	2	1	1	1	1	-	2	-	2	-	1	1	2
Tennessee.....	5	3	5	3	5	3	5	3	-	2	1	1	1	1	1	1
Texas.....	21	3	22	2	20	4	19	5	1	1	1	1	1	1	1	1
Utah.....	2	-	1	1	1	1	1	-	2	1	1	1	2	-	2	-
Vermont.....	-	1	-	1	-	1	-	1	1	1	1	1	1	1	1	1
Virginia.....	5	5	4	6	4	6	1	9	-	1	-	1	-	1	-	1
Washington.....	6	1	6	1	6	1	5	2	2	-	2	-	2	-	1	1
West Virginia.....	4	-	4	-	4	-	2	2	-	2	-	2	-	2	-	2
Wisconsin.....	7	2	7	2	6	2	5	4	2	-	2	-	2	-	1	1
Wyoming.....	1	-	1	-	-	1	-	1	1	-	2	-	2	-	2	-

- Represents zero. <sup>1</sup> Calif. and Wis. each had 1 vacancy. <sup>2</sup> N.Y. had 1 Senator classified Conservative-Republican and Va. had 1 Senator classified Independent. <sup>3</sup> One Senate seat (N.H.) was undecided at beginning of session; subsequently became Democratic. <sup>4</sup> Va. had 1 Senator classified independent.

Source: U.S. Congress, Joint Committee on Printing, *Congressional Directory*, annual; beginning 1977, biennial.

## Elections

## No. 815. MEMBERS OF CONGRESS—INCUMBENTS RE-ELECTED: 1956 TO 1980

ITEM	PRESIDENTIAL-YEAR ELECTIONS							MIDTERM ELECTIONS						
	1956	1960	1964	1968	1972	1976	1980	1958	1962	1966	1970	1974	1978	
<b>Representatives:</b>														
Incumbent candidates.....	411	405	397	409	390	384	398	396	402	411	401	391	382	
Re-elected.....	389	375	344	396	365	368	381	356	368	362	379	343	358	
Percent of candidates.....	94.6	92.5	86.6	96.8	93.6	95.8	90.7	89.9	91.5	88.1	94.5	87.7	93.7	
Defeated: In primaries.....	6	15	8	4	12	3	6	3	12	8	10	8	5	
In general elections.....	16	25	45	9	13	13	31	37	22	41	12	40	19	
<b>Senators:</b>														
Incumbent candidates.....	29	29	33	28	27	25	29	28	35	32	31	27	25	
Re-elected.....	25	28	28	20	20	18	16	18	29	28	24	23	15	
Percent of candidates.....	86.2	96.6	84.8	71.4	74.1	64.0	55.2	64.3	82.9	87.5	77.4	85.2	60.0	
Defeated: In primaries.....	-	-	1	4	2	-	4	-	1	3	1	2	3	
In general elections.....	4	1	4	4	5	9	9	10	5	1	6	2	7	

- Represents zero. <sup>1</sup> Excludes one Representative defeated in primary who was subsequently the party's nominee after primary victor's death.

Source: Congressional Quarterly, Inc., Washington, D.C., *Congressional Quarterly Weekly Report*, No. 14, April 5, 1980 (copyright) and unpublished data.

## No. 816. MEMBERS OF CONGRESS—SELECTED CHARACTERISTICS: 1971 TO 1981

[As of beginning of first session of each Congress. Figures for Representatives exclude vacancies]

MEMBERS OF CONGRESS AND YEAR	Male	Female	RACE			Married	Not married <sup>1</sup>	AGE (in years)						
			White	Black	Other			Under 40	40-49	50-59	60-69	70-79	80 and over	
<b>REPRESENTATIVES</b>														
92d Cong., 1971.....	421	12	419	12	2	407	26	40	133	152	86	19	3	
93d Cong., 1973.....	419	14	416	15	3	399	34	45	132	154	80	20	2	
94th Cong., 1975.....	416	19	417	15	3	381	54	69	138	137	75	14	2	
95th Cong., 1977.....	417	18	417	16	2	379	56	81	121	147	71	15	-	
96th Cong., 1979.....	417	16	414	16	3	364	69	86	125	145	63	14	-	
97th Cong., 1981.....	416	19	415	17	3	349	86	94	142	132	54	12	1	
<b>SENATORS</b>														
92d Cong., 1971.....	99	1	97	1	2	97	3	4	24	32	23	16	1	
93d Cong., 1973.....	100	-	97	1	2	96	4	3	25	37	23	11	1	
94th Cong., 1975 <sup>2</sup> .....	100	-	97	1	2	94	6	5	21	35	24	15	-	
95th Cong., 1977.....	100	-	96	1	3	91	9	6	26	35	21	10	2	
96th Cong., 1979.....	99	1	97	-	3	95	5	10	31	33	17	8	1	
97th Cong., 1981.....	98	2	97	-	3	93	7	9	35	36	14	6	-	

- Represents zero.

<sup>1</sup> Single, widowed, or divorced.

<sup>2</sup> Includes Sen. Durkin, N.H., seated Sept. 1975.

## No. 817. MEMBERS OF CONGRESS—SENIORITY AND OCCUPATION: 1975 TO 1981

[As of beginning of first session. Dem.=Democratic; Rep.=Republican]

SENIORITY AND OCCUPATION	REPRESENTATIVES							SENATORS						
	94th Cong., 1975	95th Cong., 1977	96th Cong., 1979	97th Cong., 1981			94th Cong., 1975	95th Cong., 1977	96th Cong., 1979	97th Cong., 1981			94th Cong., 1975	
				Total	Dem.	Rep.				Total	Dem.	Rep.		
<b>Total.....</b>	435	435	435	243	192	100	100	100	100	2 100	46	53		
<b>Seniority:</b>														
Less than 2 years.....	96	71	80	77	24	53	11	18	20	19	3	15		
2-9 years.....	162	207	206	231	143	88	41	41	51	26	25			
10-19 years.....	125	116	105	96	53	43	34	24	23	7	9			
20-29 years.....	42	33	32	23	15	8	10	12	12	11	8	3		
30 years or more.....	10	8	10	8	8	-	4	5	4	2	2	-		
<b>Occupation:</b> <sup>3</sup>														
Agriculture.....	31	16	19	28	11	17	10	9	6	9	2	7		
Business or banking.....	140	118	127	134	58	76	22	24	29	28	13	15		
Education.....	64	70	57	59	39	20	10	8	7	10	5	5		
Journalism.....	24	27	11	21	9	12	5	6	2	7	4	3		
Law.....	221	222	205	194	114	80	67	68	65	59	33	36		
Public service/politics <sup>4</sup> .....	346	60	41	52	31	21	94	17	12	13	6	7		

- Represents zero.

<sup>1</sup> Includes 2 vacancies.

<sup>2</sup> Includes 1 Independent.

<sup>3</sup> Not all occupations reported are listed.

Source: Congressional Quarterly, Inc., Washington, D.C., *Congressional Quarterly Weekly Report*, No. 4, Jan. 24, 1981, and previous issues (copyright). Members of Congress may state more than 1 occupation; therefore, sum may be greater than total.

<sup>4</sup> Beginning 95th Congress, data not comparable with 94th Congress because of change in criteria.

Source of tables 816 and 817: Except as noted, compiled by U.S. Bureau of the Census from U.S. Congress, Joint Committee on Printing, *Congressional Directory*, annual; beginning 1977, biennial.

## NO. 818. ELECTED STATE AND LOCAL GOVERNMENT OFFICIALS, BY REGIONS: 1977

{For composition of regions, see fig. I, inside front cover. For explanation of methodology, see Appendix III}

TYPE OF GOVERNMENT	Number of govern- ments	Total elected officials	Aver- age per gov- ernment	ELECTED OFFICIALS IN—			
				Northeast	No. Central	South	West
Total .....	79,912	490,265	6.1	102,187	224,400	102,327	61,351
State governments.....	50	15,294	305.9	3,362	3,952	5,404	2,576
Local governments <sup>1</sup> .....	79,862	474,971	6.0	98,825	220,448	96,923	58,775
Counties.....	3,042	82,922	20.7	3,201	25,865	27,805	6,051
Municipalities.....	18,862	134,017	7.1	20,723	59,577	39,782	13,935
Townships.....	16,822	118,966	7.1	47,495	71,471	—	—
School districts.....	15,174	87,062	5.7	18,404	36,689	17,445	14,530
Special districts.....	25,982	72,377	2.8	9,351	26,859	11,891	24,276

— Represents zero. <sup>1</sup> Adjusted to exclude officials serving both county and township or city governments.Source: U.S. Bureau of the Census, *Census of Governments: 1977*, vol. 1, No. 2, *Popularly Elected Officials of State and Local Governments*.

## NO. 819. VOTE CAST FOR AND GOVERNOR ELECTED, BY STATES: 1974 TO 1980

{In thousands, except percent. D=Democratic, R=Republican, I=Independent}

STATE	1974		1976		1978		1980		Candidate elected at most recent election
	Total vote <sup>1</sup>	Per- cent leading party							
Alabama .....	598	D-83.2	(x)	(x)	760	D-72.6	(x)	(x)	Forrest H. James.
Alaska .....	96	R-47.7	(x)	(x)	127	R-39.1	(x)	(x)	Jay S. Hammond.
Arizona .....	552	D-50.4	(x)	(x)	539	D-52.5	(x)	(x)	Bruce Babbitt.
Arkansas .....	546	D-65.6	727	D-83.2	529	D-63.3	839	R-51.8	Frank D. White.
California .....	6,248	D-50.1	(x)	(x)	6,922	D-56.0	(x)	(x)	Edmund Brown, Jr.
Colorado .....	829	D-53.2	(x)	(x)	824	D-58.8	(x)	(x)	Richard D. Lamm.
Connecticut .....	1,103	D-58.4	(x)	(x)	1,037	D-59.2	(x)	(x)	Ella T. Grasso.
Delaware .....	(x)	(x)	230	R-56.9	(x)	(x)	225	R-70.6	Pierre S. du Pont.
Florida .....	1,828	D-61.2	(x)	(x)	2,530	D-55.6	(x)	(x)	Robert Graham.
Georgia .....	936	D-69.1	(x)	(x)	663	D-80.7	(x)	(x)	George Busbee.
Hawaii .....	250	D-54.8	(x)	(x)	282	D-54.5	(x)	(x)	George R. Ariyoshi.
Idaho .....	260	D-70.9	(x)	(x)	289	D-74.5	(x)	(x)	John V. Evans.
Illinois .....	(x)	(x)	4,699	R-64.7	3,150	R-59.0	(x)	(x)	James R. Thompson.
Indiana .....	(x)	(x)	2,175	R-56.8	(x)	(x)	2,178	R-57.7	Robert D. Orr.
Iowa .....	920	R-58.1	(x)	(x)	843	R-58.3	(x)	(x)	Robert Ray.
Kansas .....	784	R-49.5	(x)	(x)	736	D-49.4	(x)	(x)	John Carlin.
Kentucky <sup>2</sup> .....	748	D-62.8	(x)	(x)	939	D-59.4	(x)	(x)	John Y. Brown.
Louisiana .....	3,120 <sup>3</sup>	D-62.4	(x)	(x)	1,372	R-50.3	(x)	(x)	David C. Treen.
Maine .....	364	I-39.1	(x)	(x)	370	D-47.7	(x)	(x)	Joseph E. Brennan.
Maryland .....	949	D-63.5	(x)	(x)	1,012	D-71.0	(x)	(x)	Harry Hughes.
Massachusetts .....	1,855	D-53.4	(x)	(x)	1,962	D-52.5	(x)	(x)	Edward J. King.
Michigan .....	2,657	R-51.1	(x)	(x)	2,867	R-56.8	(x)	(x)	William Milliken.
Minnesota .....	1,253	D-62.8	(x)	(x)	1,598	R-52.3	(x)	(x)	Albert H. Quie.
Mississippi <sup>2</sup> .....	708	D-52.2	(x)	(x)	677	D-61.1	(x)	(x)	William Winter.
Missouri .....	(x)	(x)	1,934	D-50.2	(x)	(x)	2,088	R-52.6	Christopher S. Bond.
Montana .....	(x)	(x)	317	D-61.7	(x)	(x)	360	D-55.4	Ted Schwinden.
Nebraska .....	451	D-59.2	(x)	(x)	492	R-55.9	(x)	(x)	Charles Thone.
Nevada .....	169	D-67.4	(x)	(x)	192	R-56.2	(x)	(x)	Robert F. List.
New Hampshire .....	227	R-51.1	343	R-57.7	270	D-49.4	384	D-59.0	Hugh J. Galien.
New Jersey <sup>4</sup> .....	2,122	D-66.7	2,126	D-65.7	(x)	(x)	2,388	R-48.4	Thomas Kean.
New Mexico .....	329	D-49.9	(x)	(x)	346	D-50.5	(x)	(x)	Bruce King.
New York .....	5,293	D-57.2	(x)	(x)	4,769	D-50.9	(x)	(x)	Hugh Carey.
North Carolina .....	(x)	(x)	1,664	D-65.0	(x)	(x)	1,847	D-61.9	James B. Hunt, Jr.
North Dakota .....	(x)	(x)	297	D-51.6	(x)	(x)	303	R-53.6	Allen I. Olson.
Ohio .....	3,072	R-48.6	(x)	(x)	2,843	R-49.3	(x)	(x)	James Rhodes.
Oklahoma .....	805	D-63.8	(x)	(x)	777	D-51.7	(x)	(x)	George Nigh.
Oregon .....	771	D-57.7	(x)	(x)	911	R-54.7	(x)	(x)	Victor Atiyeh.
Pennsylvania .....	3,491	D-53.8	(x)	(x)	3,742	R-52.5	(x)	(x)	Richard Thornburgh.
Rhode Island .....	322	D-78.5	399	D-54.8	314	D-62.8	406	D-73.7	J. Joseph Garrahy.
South Carolina .....	523	R-50.9	(x)	(x)	627	D-61.4	(x)	(x)	Richard Riley.
South Dakota .....	278	D-53.6	(x)	(x)	260	R-56.6	(x)	(x)	William Janklow.
Tennessee .....	1,041	D-55.4	(x)	(x)	1,190	R-55.6	(x)	(x)	Lamar Alexander.
Texas .....	1,655	D-61.4	(x)	(x)	2,370	R-50.0	(x)	(x)	Willard Clements.
Utah .....	(x)	(x)	540	D-52.0	(x)	(x)	600	D-55.2	Scott M. Matheson.
Vermont .....	141	D-56.6	186	R-53.4	124	R-62.8	210	R-58.6	Richard S. Snelling.
Virginia <sup>5</sup> .....	1,035	R-50.7	1,251	R-55.9	(x)	(x)	1,421	D-53.5	Charles Robb.
Washington .....	(x)	(x)	1,548	D-53.1	(x)	(x)	1,731	R-56.7	John Spellman.
West Virginia .....	(x)	(x)	749	D-66.2	(x)	(x)	742	D-54.1	John Rockefeller, IV.
Wisconsin .....	1,182	D-53.2	(x)	(x)	1,501	R-54.4	(x)	(x)	Lee Dreyfus.
Wyoming .....	128	D-55.9	(x)	(x)	138	D-50.9	(x)	(x)	Ed Herschler.

X Not applicable. <sup>1</sup> Includes minor party and scattered votes. <sup>2</sup> Voting years, 1975 and 1979. <sup>3</sup> Primary election, Nov. 1975, held on a non-party basis. <sup>4</sup> Dec. 1979 vote. <sup>5</sup> Voting years, 1973, 1977, and 1981.Source: Elections Research Center, Washington, D.C., *America Votes*, biennial (copyright).

## Elections

## No. 820. COMPOSITION OF STATE LEGISLATURES, BY POLITICAL PARTY AFFILIATIONS: 1974 TO 1980

[Dates shown refer to election years in most States, to odd-year elections a year previously, in a few. Figures reflect immediate results of elections, including holdover members in State houses which do not have all of their members running for re-election. Dem.=Democratic; Rep.=Republican. In general, Lower House refers to body consisting of State Representatives; Upper House, of State Senators.]

STATE	LOWER HOUSE								UPPER HOUSE							
	1974 <sup>1,2</sup>		1976 <sup>3,4</sup>		1978 <sup>5,6</sup>		1980 <sup>7</sup>		1974 <sup>1,8</sup>		1976 <sup>4,9</sup>		1978 <sup>6,10</sup>		1980 <sup>11</sup>	
	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.	Dem.	Rep.
U.S. ....	3,793	1,765	3,772	1,783	3,454	2,027	3,298	2,181	1,307	620	1,306	618	1,260	669	1,185	737
Ala. ....	105	-	103	2	101	4	100	4	35	-	34	-	35	-	35	-
Alaska <sup>12</sup> ....	30	9	25	15	25	14	22	16	13	7	12	8	9	11	11	9
Ariz. ....	27	33	22	38	18	42	17	43	18	12	16	14	14	16	14	16
Ark. <sup>12</sup> ....	98	2	95	5	94	6	93	7	34	1	34	1	35	-	34	1
Calif. <sup>12</sup> ....	55	25	57	23	50	30	48	32	25	15	26	14	25	14	23	17
Colo. ....	39	26	30	35	27	38	26	39	16	19	17	18	13	22	13	22
Conn. ....	116	33	91	60	103	48	83	68	29	7	22	14	26	10	22	13
Del. <sup>12</sup> ....	25	16	26	15	20	21	16	25	13	8	13	8	13	8	12	9
Fla. <sup>12</sup> ....	86	34	93	27	89	31	81	39	27	12	30	9	29	11	27	13
Ga. ....	155	24	156	24	160	20	156	23	51	5	52	4	51	5	51	5
Hawaii ....	35	16	41	10	42	9	39	12	18	7	18	7	18	7	17	8
Idaho ....	27	43	22	48	20	50	14	56	13	22	15	20	16	19	12	23
Ill. ....	101	76	94	83	89	88	86	91	34	25	34	25	32	27	30	29
Ind. <sup>12</sup> ....	56	44	48	52	46	54	35	63	23	27	28	22	21	29	15	35
Iowa <sup>12</sup> ....	61	39	59	41	44	56	42	58	26	24	26	24	21	29	22	28
Kans. ....	53	72	65	60	56	68	53	72	14	26	19	21	19	21	16	24
Ky. <sup>12</sup> ....	78	22	79	22	75	25	75	24	30	8	29	9	29	9	29	8
La. ....	101	4	101	4	96	9	95	10	38	1	38	1	39	-	39	-
Maine ....	91	59	89	62	77	73	84	67	14	19	12	21	13	19	16	17
Md. ....	126	15	125	15	125	16	125	15	39	8	39	8	40	7	40	7
Mass. ....	190	45	192	44	129	30	128	31	33	7	34	6	34	6	32	7
Mich. ....	66	44	88	42	70	40	64	46	24	14	24	14	24	14	24	14
Minn. ....	103	31	100	34	87	87	70	64	38	28	48	19	47	20	45	22
Miss. ....	119	3	117	3	116	4	115	4	50	2	50	2	48	4	48	4
Mo. <sup>12</sup> ....	114	49	112	51	117	46	111	52	23	11	22	12	22	12	23	10
Mont. <sup>12</sup> ....	67	33	57	43	55	45	43	57	30	20	25	25	26	24	21	29
Nebr. ....	(18)	(18)	(18)	(18)	(18)	(18)	(18)	(18)	(18)	(18)	(18)	(18)	(18)	(18)	(18)	(18)
Nev. <sup>12</sup> ....	31	9	35	5	26	14	26	14	17	3	17	3	15	5	15	5
N.H. ....	187	233	175	219	170	223	160	238	12	12	12	12	11	13	10	13
N.J. ....	49	31	54	26	44	36	44	36	29	10	27	13	27	13	25	13
N. Mex. ....	51	18	48	22	41	29	41	29	29	13	33	9	32	10	22	20
N.Y. ....	88	62	87	56	86	64	86	63	28	34	21	36	25	35	25	35
N.C. ....	111	9	114	8	106	14	95	24	49	1	47	3	44	6	40	10
N. Dak. <sup>12</sup> ....	40	62	50	50	29	71	27	73	17	18	32	15	35	10	40	10
Ohio <sup>12</sup> ....	59	40	62	37	62	37	54	45	21	12	21	12	18	15	15	18
Oklahoma <sup>12</sup> ....	76	25	79	22	75	26	73	28	39	9	39	9	38	10	37	11
Oreg. <sup>12</sup> ....	38	22	37	23	34	26	33	27	22	7	24	6	23	7	22	8
Pa. <sup>12</sup> ....	114	89	118	84	100	102	100	103	29	20	28	20	28	22	23	25
R.I. ....	89	17	83	17	84	16	82	18	46	4	45	5	46	4	43	7
S.C. <sup>12</sup> ....	107	17	111	12	107	16	107	17	44	2	43	3	43	3	41	5
S. Dak. ....	33	37	22	48	22	48	21	49	19	16	12	23	11	24	10	25
Tenn. ....	63	35	65	32	60	38	57	39	20	12	23	9	20	12	20	12
Tex. <sup>12</sup> ....	134	16	121	19	127	23	114	35	28	3	27	4	26	5	23	7
Utah ....	40	35	35	40	24	51	17	58	15	14	17	12	10	19	7	22
Vt. ....	65	75	75	74	69	79	64	86	12	18	9	21	10	20	14	16
Va. ....	78	17	76	21	74	25	74	25	35	5	35	5	31	9	31	9
Wash. <sup>12</sup> ....	62	36	62	36	49	49	42	56	30	19	29	20	30	19	24	25
W. Va. <sup>12</sup> ....	86	14	91	9	74	26	78	22	26	8	28	6	26	8	27	7
Wis. <sup>12</sup> ....	63	36	66	33	60	37	59	39	19	14	22	11	21	12	19	14
Wyo. <sup>12</sup> ....	29	32	29	32	20	42	23	39	15	12	18	11	19	11	19	11

<sup>1</sup> Represents zero. <sup>2</sup> Status as of late 1975; includes elections held and vacancies filled in 1975. <sup>3</sup> Excludes 1 Independent each for Alaska, Maine, Tenn., and Wyo.; 3 Independents for Mass., 5 Independents for Va., and 10 Independents for Vt.; 1 vacancy for Ga. and 2 vacancies for Mass. <sup>4</sup> Includes 1 Independent each for Miss., N.Y., Tenn., Vt., and Wyo.; 3 Independents each for Mass. and Va.; 1 vacancy each for Md., Mass., Miss., Pa., and S.C.; 4 vacancies for N.Y., and 6 vacancies for N.H. <sup>5</sup> Status as of January 1978; includes elections held and vacancies filled in 1977. <sup>6</sup> Excludes 1 Independent each for Maine, Mass., Tenn., and Va.; 1 Libertarian for Alaska; 2 Independent-Republicans for Miss.; 2 Independents for Vt.; 1 vacancy each for Pa. and S.C.; 2 vacancies for Wis.; and 7 vacancies for N.H. <sup>7</sup> Status as of January 1980; includes elections held and vacancies filled in 1979. <sup>8</sup> Excludes 1 Independent each for Md., Mass., and Va.; 2 Independents each for Miss. and Tenn.; 2 Libertarians for Alaska; 1 vacancy each for Ala., Ga., Ky., Miss., N.Y., N.C., Tenn., Tex., and Wis.; and 2 vacancies each for Ind. and N.H. <sup>9</sup> Excludes 1 Independent each for Fla., Ga., and Tenn.; 2 vacancies for Pa., and 3 vacancies for N.Y. <sup>10</sup> Excludes 1 Independent each for Mo., N.H., and Tex.; and 2 vacancies each for N.J. and Pa. <sup>11</sup> Excludes 1 Independent each for Mass. and Tenn.; 1 vacancy each for Conn., New York, and N.J.; and 2 vacancies each for N.J. and Pa. <sup>12</sup> Upper House members serve 4-year terms, some elected every 2 years. <sup>13</sup> Single chamber (unicameral body) of 49 members, elected without party designation.

Source: The Council of State Governments, Lexington, Kentucky, *Book of the States*, and its *Supplement I*, both biennial. (Copyright.)

## NO. 821. BLACK ELECTED OFFICIALS, BY OFFICE, 1970 TO 1980, AND BY REGIONS AND STATES, 1980

[As of July 1980, no Black elected officials had been identified in Idaho, Montana, North Dakota, South Dakota, Utah, Vermont, or Wyoming. For composition of regions, see fig. I, inside front cover]

YEAR, REGION, AND STATE	Total	U.S. and State legis- latures <sup>1</sup>	City and county of- fices <sup>2</sup>	Law enforce- ment <sup>3</sup>	Educa- tion <sup>4</sup>	STATE	Total	U.S. and State legis- latures <sup>1</sup>	City and county of- fices <sup>2</sup>	Law enforce- ment <sup>3</sup>	Educa- tion <sup>4</sup>
1970 (Feb.)	1,472	182	715	213	362	Iowa	6	-	-	1	5
1972 (Mar.)	2,264	224	1,108	263	688	Kans.	28	5	14	1	8
1973 (Apr.)	2,621	256	1,264	334	787	Ky.	71	4	43	10	14
1974 (Apr.)	2,991	256	1,602	340	793	La.	363	12	217	42	92
1975 (Apr.)	3,503	299	1,878	387	938	Maine	2	-	2	-	-
1976 (Apr.)	3,979	299	2,274	412	994	Md.	85	21	53	9	2
1977 (July)	4,311	316	2,497	447	1,051	Mass.	27	6	11	-	10
1978 (July)	4,503	316	2,595	454	1,138	Mich.	284	18	123	36	107
1979 (July)	4,584	315	2,647	486	1,136	Minn.	10	1	3	3	3
1980, July	4,890	326	2,832	526	1,206	Miss.	387	17	218	78	74
Northeast	570	55	206	93	216	Mo.	136	15	95	12	14
North Central	1,041	88	581	104	268	Nebr.	7	1	1	-	5
South	2,981	160	1,859	258	604	N.H.	1	1	-	-	-
West	298	23	86	71	118	N.J.	151	5	79	-	67
Ala.	238	15	157	40	26	N.Y.	200	18	37	39	106
Alaska	3	-	2	-	1	N.C.	247	5	172	8	62
Ariz.	14	2	5	2	5	Ohio	186	13	111	20	42
Ark.	227	4	136	1	86	Oklahoma	77	4	50	2	21
Calif.	237	12	64	58	103	Oreg.	6	1	2	2	1
Colo.	15	2	5	5	3	Pa.	129	17	45	48	19
Conn.	53	7	27	6	13	R.I.	7	1	5	-	1
Del.	14	3	9	-	2	S.C.	238	14	138	20	66
D.C.	261	1	252	-	8	Tenn.	112	13	78	7	14
Fla.	109	4	87	6	12	Tex.	196	14	82	21	79
Ga.	249	23	173	8	45	Va.	91	5	82	4	-
Hawaii	1	1	-	-	-	Wash.	14	2	6	3	3
Ill.	298	24	177	24	73	W. Va.	16	1	12	2	1
Ind.	66	7	48	5	6	Wis.	20	4	9	2	5

<sup>1</sup> Represents zero. <sup>2</sup> Includes elected State administrators and directors of State agencies, county commissioners and councilmen, mayors, vice mayors, aldermen, regional officials, and other. <sup>3</sup> Judges, magistrates, constables, marshals, sheriffs, justices of the peace, and other. <sup>4</sup> College boards, school boards and other.

Source: Joint Center for Political Studies, Washington, D.C., *National Roster of Black Elected Officials*, annual. (Copyright)

## NO. 822. VOTER REGISTRATION IN 11 SOUTHERN STATES, BY RACE: 1960 TO 1980

[In thousands, except percent. For 1980 to 1970, population 21 yr. and over, except Ga., 18 yr. and over; beginning 1975, population 18 yr. and over for all Southern States. For voting age population, see table 825]

YEAR AND RACE	Total	Ala.	Ark.	Fla.	Ga.	La.	Miss.	N.C.	S.C.	Tenn.	Tex.	Va.
1960: White..	12,276	860	518	1,819	1,020	993	478	1,861	481	1,300	2,079	867
Black..	1,463	66	73	183	180	159	22	210	58	185	227	100
Percent White <sup>1</sup> ..	61.1	63.6	60.9	69.3	55.8	76.9	83.9	92.1	57.1	73.0	42.5	46.1
Percent Black <sup>1,2</sup> ..	29.1	13.7	38.0	39.4	29.3	31.1	5.2	39.1	13.7	59.1	35.5	23.1
1966: White..	14,310	1,192	598	2,093	1,379	1,072	471	1,654	718	1,375	2,600	1,159
Black..	2,689	250	115	303	300	243	175	282	191	225	400	205
1968: White..	15,702	1,117	640	2,195	1,524	1,133	691	1,579	587	1,448	3,532	1,256
Black..	3,112	273	130	292	344	305	251	305	169	228	540	255
1970: White..	16,985	1,311	728	2,495	1,615	1,143	690	1,640	668	1,600	3,599	1,496
Black..	3,357	315	153	302	395	319	286	305	221	242	550	269
1975: White..	19,429	1,486	797	3,119	1,534	1,336	866	1,919	660	1,697	4,252	1,762
Black..	3,635	307	200	356	556	393	288	356	222	282	610	289
1976: White..	21,690	1,544	817	3,480	1,703	1,445	486	2,137	828	1,886	5,191	1,794
Black..	3,419	321	204	410	598	421	288	396	265	271	640	317
1980: White..	24,981	1,700	1,058	4,331	1,800	1,550	1,152	2,214	916	2,200	6,020	1,942
Black..	4,254	350	130	489	450	465	330	440	320	300	620	360
Percent White <sup>1</sup> ..	79.4	81.8	81.0	72.0	65.8	77.2	102.2	72.0	61.8	80.2	71.2	82.5
Percent Black <sup>1</sup> ..	57.7	57.5	59.9	61.4	51.9	61.3	64.1	55.3	55.8	66.7	54.8	54.1

<sup>1</sup> Of voting age population. <sup>2</sup> Includes other minority races. <sup>3</sup> Estimated. <sup>4</sup> 1975 data.

Source: Voter Education Project, Inc., Atlanta, Ga., *Voter Registration in the South*, issued irregularly.

## Elections

## NO. 823. WOMEN HOLDING STATE AND LOCAL PUBLIC OFFICES, BY OFFICE, 1975 TO 1980, AND BY STATES, 1980

[As of August. For data on women in U.S. Congress, see table 816]

YEAR AND STATE	Total	State legislature	County commission	Mayorality	Townships and local councils	STATE	Total	State legislature	County commission	Mayorality	Townships and local councils
1975	7,089	1,702	456	566	5,365	Minn.	520	18	19	46	437
1977	11,392	1,806	656	735	9,195	Miss.	153	2	5	14	132
1979	14,353	1,947	947	998	11,461	Mo.	432	17	18	33	364
1980	16,083	1,763	1,144	1,333	12,843	Mont.	115	14	5	11	85
Percent <sup>2</sup>	12	10	6	1	3						
Ala.	308	4	8	22	274	Nebr.	198	3	10	26	159
Alaska	198	7	7	11	173	N.H.	18	5	5	1	7
Ariz.	101	17	8	6	70	N.J.	180	114	4	22	50
Ark.	332	4	52	34	242	N. Mex.	414	5	17	42	350
Calif.	367	11	48	52	256	N.Y.	433	13	85	51	284
Colo.	302	21	7	22	252	N.C.	332	22	40	39	231
Conn.	289	37	(X)	15	237	N. Dak.	184	20	7	14	143
Del.	55	7	3	8	37	Ohio	1,001	9	11	63	918
D.C.	6	(X)	(X)	-	6	Oklahoma	279	6	4	38	231
Fla.	395	18	24	34	319	Oreg.	300	13	13	22	252
Ga.	262	15	25	24	198						
Hawaii	13	10	2	-	1	Pa.	674	11	23	35	605
Idaho	129	10	4	14	101	R.I.	55	13	(X)	-	42
Ill.	633	26	134	41	432	S.C.	127	9	16	7	95
Ind.	285	11	3	9	262	S. Dak.	156	9	8	33	106
Iowa	622	15	23	35	549	Tenn.	196	4	73	7	112
Kans.	386	14	17	29	326	Tex.	677	12	32	69	564
Ky.	456	9	23	45	379	Utah	102	4	2	7	89
La.	193	2	19	21	151	Vt.	112	34	(X)	9	69
Maine	291	34	2	86	168	Va.	226	9	37	9	171
Md.	157	28	24	12	93	Wash.	303	27	8	35	233
Mass.	207	15	8	43	141	Wis.	204	9	9	16	170
Mich.	2,328	12	84	85	2,147	Wyo.	185	13	154	18	(NA)
							86	16	7	6	57

- Represents zero. NA Not available. X Not applicable. <sup>1</sup> Includes all major State appellate courts and trial courts; 92 in 1975, 110 in 1977, and 177 in 1979. <sup>2</sup> Percent of all officeholders.

Source: Center for the American Woman and Politics, The Eagleton Institute of Politics, Rutgers University, New Brunswick, New Jersey, informal information releases.

## NO. 824. PARTICIPATION IN ELECTIONS FOR PRESIDENT AND U.S. REPRESENTATIVES: 1932 TO 1980

[Population estimated, as of November except 1980, enumerated population as of April. Resident population 21 years old and over, 1932-1970, except as noted, and 18 and over thereafter; includes Armed Forces. Prior to 1960, excludes Alaska and Hawaii. Dist. of Col. is included in votes cast for President beginning 1964 and in votes cast for Representative beginning 1972]

YEAR	Resident population (incl. aliens) of voting age <sup>1</sup> (1,000)	VOTES CAST				YEAR	Resident population (incl. aliens) of voting age <sup>1</sup> (1,000)	VOTES CAST			
		For President <sup>2</sup> (1,000)	Percent of voting age population	For U.S. Representatives <sup>2</sup> (1,000)	Percent of voting age population			For President <sup>2</sup> (1,000)	Percent of voting age population	For U.S. Representatives <sup>2</sup> (1,000)	Percent of voting age population
1932	75,768	39,732	52.4	37,657	49.7	1956	104,515	62,027	59.3	58,426	55.9
1934	77,997	(X)	(X)	32,256	41.4	1958	106,447	(X)	(X)	45,818	43.0
1936	80,174	45,643	56.0	42,986	53.5	1960	108,672	68,838	62.8	64,133	58.5
1938	82,354	(X)	(X)	36,236	44.0	1962	112,952	(X)	(X)	51,267	45.4
1940	84,728	49,900	58.9	46,951	55.4	1964	114,090	70,645	61.9	65,895	57.8
1942	86,465	(X)	(X)	28,074	32.5	1966	116,638	(X)	(X)	52,908	45.4
1944	85,654	47,977	56.0	45,103	52.7	1968	120,285	73,212	60.9	66,288	55.1
1946	92,659	(X)	(X)	34,988	37.1	1970	124,498	(X)	(X)	54,173	43.5
1948	95,573	48,794	51.1	45,933	48.1	1972	140,068	77,719	55.5	71,430	51.0
1950	98,134	(X)	(X)	40,342	41.1	1974	145,035	(X)	(X)	52,495	36.2
1952	98,929	61,651	61.6	57,571	57.6	1976	150,127	81,556	54.3	74,422	49.6
1954	102,075	(X)	(X)	42,580	41.7	1978	155,712	(X)	(X)	55,332	35.5
						1980	162,761	86,515	53.2	77,995	47.9

X Not applicable. <sup>1</sup> Population 18 and over in Georgia, 1944-1970, and in Kentucky, 1956-1970; 19 and over in Alaska and Hawaii, 1960-1970. <sup>2</sup> Source: Beginning 1960, Elections Research Center, Washington, D.C., *America Votes*, biennial (copyright).

Source: Except as noted, U.S. Bureau of the Census, *Current Population Reports*, series P-25, No. 879 and unpublished data; and, through 1958, U.S. Congress, Clerk of the House, *Statistics of the Presidential and Congressional Election*.

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# Resident Population of Voting Age

**NO. 825. RESIDENT POPULATION OF VOTING AGE, 1970 TO 1980, AND BY AGE-GROUP, 1980—STATES**

[In thousands. 1970-1976, estimated population as of November; 1980, enumerated population as of April. Includes Armed Forces stationed in each State, aliens, and institutional population]

STATE	1970 <sup>1</sup>		1972 <sup>2</sup>	1976 <sup>2</sup>	1980 <sup>2</sup>				
	Total	Black			Total	18-24 years	25-44 years	45-64 years	65 yr. and over
<b>U.S.</b>	<b>124,498</b>	<b>11,935</b>	<b>140,056</b>	<b>150,127</b>	<b>182,761</b>	<b>30,013</b>	<b>82,707</b>	<b>44,497</b>	<b>25,544</b>
Alabama	2,042	452	2,914	2,506	2,729	513	1,028	748	440
Alaska	<sup>a</sup> 178	<sup>a</sup> 6	197	256	270	60	144	55	12
Arizona	1,056	26	1,295	1,527	1,926	369	742	508	307
Arkansas	1,180	174	1,354	1,471	1,614	278	583	441	312
California	12,376	780	13,969	15,326	17,281	3,252	7,058	4,556	2,415
Colorado	1,328	36	1,586	1,792	2,080	418	916	499	247
Connecticut	1,886	94	2,089	2,213	2,285	385	860	674	365
Delaware	326	40	378	404	428	84	164	122	59
District of Columbia	483	314	530	507	494	97	197	127	74
Florida	4,451	529	5,242	6,116	7,381	1,140	2,449	2,108	1,685
Georgia	<sup>a</sup> 2,985	<sup>a</sup> 677	3,098	3,391	3,818	732	1,578	991	517
Hawaii	<sup>a</sup> 473	<sup>a</sup> 5	536	605	689	142	291	180	78
Idaho	418	1	491	559	637	123	260	161	94
Illinois	6,795	747	7,532	7,791	8,178	1,507	3,747	2,263	1,261
Indiana	3,104	185	3,496	3,653	3,872	737	1,488	1,062	585
Iowa	1,712	16	1,936	2,007	2,088	388	752	560	387
Kansas	1,380	56	1,553	1,639	1,714	327	624	457	308
Kentucky	2,136	<sup>a</sup> 140	2,204	2,376	2,579	492	991	686	410
Louisiana	2,058	534	2,373	2,567	2,874	595	1,131	745	404
Maine	601	1	683	743	803	141	302	219	141
Maryland	2,372	372	2,690	2,885	3,049	551	1,252	850	396
Massachusetts	3,538	92	3,968	4,133	4,247	784	1,563	1,173	727
Michigan	5,200	530	5,868	6,220	6,507	1,255	2,544	1,796	912
Minnesota	2,248	18	2,546	2,730	2,905	559	1,128	741	480
Mississippi	1,283	379	1,435	1,554	1,706	398	630	448	289
Missouri	2,913	254	3,228	3,386	3,555	636	1,293	977	648
Montana	410	1	469	516	555	104	221	145	85
Nebraska	906	20	1,030	1,084	1,123	210	413	293	206
Nevada	303	14	357	425	584	105	250	163	66
New Hampshire	452	1	520	578	663	121	264	175	103
New Jersey	4,507	412	4,997	5,187	5,374	872	2,018	1,624	860
New Mexico	561	9	671	767	884	178	361	229	116
New York	11,543	1,229	12,663	12,863	12,870	2,157	4,823	3,728	2,161
North Carolina	3,043	569	3,496	3,805	4,219	821	1,644	1,151	602
North Dakota	360	1	413	442	462	97	168	116	80
Ohio	6,419	525	7,123	7,420	7,703	1,413	2,923	2,197	1,169
Oklahoma	1,605	88	1,809	1,963	2,170	402	813	590	376
Oregon	1,308	14	1,503	1,658	1,910	330	785	491	303
Pennsylvania	7,412	587	8,193	8,455	8,742	1,602	3,068	2,641	1,531
Rhode Island	596	13	671	669	704	129	245	203	127
South Carolina	1,487	377	1,748	1,923	2,178	446	867	578	287
South Dakota	389	1	447	471	485	95	169	129	91
Tennessee	2,410	323	2,758	2,974	3,292	601	1,278	895	518
Texas	6,658	735	7,655	8,603	9,923	1,986	4,029	2,536	1,371
Utah	583	3	699	780	921	216	384	212	109
Vermont	265	(z)	306	330	366	71	145	92	58
Virginia	2,823	458	3,202	3,556	3,872	741	1,591	1,035	505
Washington	2,078	38	2,306	2,546	2,991	554	1,231	775	431
West Virginia	1,077	37	1,221	1,293	1,390	243	513	396	238
Wisconsin	2,615	60	2,991	3,193	3,347	643	1,252	889	564
Wyoming	198	1	229	269	325	69	142	76	37

<sup>2</sup> Fewer than 500. <sup>1</sup> Population age 21 and over, except as noted. <sup>a</sup> Population age 18 and over. <sup>b</sup> Population age 19 and over. <sup>c</sup> Population age 20 and over.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, No. 879, and unpublished data.

## Elections

## NO. 826. VOTER REGISTRATION AND PERSONS VOTING, BY STATES: 1972 TO 1980

[For 1972 and 1976, total persons voting restricted to number of ballots recorded by Secretaries of State as having been cast for any electoral office or referendum; or in those States which do not count total number of ballots (which are noted), the largest number of votes cast for a particular office. For 1980, total persons voting are total votes cast for President. For total resident voting-age population, see table 825]

STATE	PERSONS REGISTERED						PERSONS VOTING									
	Total (1,000)			Percent of voting- age population			Total (1,000)			Percent of registered			Percent of voting- age population			
	1972	1976	1980	1972	1976	1980	1972	1976	1980	1972	1976	1980	1972	1976	1980	
U.S. ....	92,702	105,837	112,945	(x)	71.4	71.1	78,902	82,645	86,489	(x)	77.1	74.3	56.3	55.1	52.9	
Ala. ....	1,764	1,865	2,142	77.6	74.4	78.2	1,051	1,183	1,342	59.6	63.4	62.6	45.4	47.2	49.0	
Alaska....	149	207	259	74.5	80.9	95.1	99	128	158	66.2	61.8	61.2	50.3	50.0	58.3	
Ariz. ....	862	980	1,121	69.6	64.2	58.0	648	765	874	75.2	78.1	78.0	50.0	50.1	45.2	
Ark. ....	1,010	1,021	1,189	77.1	69.4	79.3	4651	4768	838	64.5	75.2	70.5	48.1	52.2	51.6	
Calif. ....	10,466	9,982	11,361	75.1	65.1	65.5	8,598	8,137	8,586	82.1	81.5	75.6	61.5	53.1	49.5	
Colo. ....	1,220	1,349	1,434	76.3	75.3	68.8	954	1,082	1,184	78.2	80.2	82.6	60.2	60.4	56.8	
Conn. ....	1,648	1,669	1,706	78.3	75.4	74.3	1,409	1,408	1,406	85.5	84.4	82.4	67.4	63.6	61.2	
Del. ....	293	301	301	78.9	74.5	70.1	4236	4236	236	80.5	78.4	78.4	62.3	58.4	54.9	
D.C. ....	305	288	289	58.9	52.9	58.5	166	171	174	54.3	63.8	60.2	31.3	33.7	35.2	
Fla. ....	3,487	4,094	4,810	68.3	66.9	64.9	4,2583	4,3151	3,681	74.1	77.0	76.5	49.3	51.5	49.6	
Ga. ....	2,043	2,302	2,467	65.8	67.9	64.4	1,179	1,467	1,597	57.7	63.7	64.7	38.1	43.3	41.7	
Hawaii....	338	363	403	63.6	60.0	58.2	287	309	303	84.8	85.1	75.3	53.5	51.1	43.6	
Idaho....	397	520	581	82.9	93.0	90.9	4310	355	437	78.2	68.3	75.3	63.2	58.5	58.5	
Ill. ....	6,215	6,252	6,212	82.4	80.2	75.6	4,883	4,839	4,748	78.6	77.4	76.4	64.8	62.1	57.8	
Ind. ....	3,019	3,010	2,944	86.0	82.4	76.2	2,126	2,279	2,242	70.4	75.7	76.1	60.8	62.4	57.7	
Iowa....	(5)	1,407	1,747	(X)	70.1	83.4	1,226	1,279	1,318	(X)	90.9	75.4	63.3	63.7	62.9	
Kans. ....	(5)	1,113	1,291	(X)	67.9	75.1	922	958	980	(X)	86.1	75.9	59.4	58.4	57.0	
Ky. ....	1,455	1,713	1,803	65.9	72.1	68.7	1,067	1,167	1,295	73.4	88.1	71.8	48.4	49.1	50.0	
La. ....	1,785	1,866	2,015	76.3	72.7	69.9	4,126	4,278	1,549	62.8	68.5	76.8	47.3	49.8	53.7	
Maine....	616	696	760	92.4	93.7	94.2	3,421	3,486	523	68.4	69.8	68.8	61.6	65.4	64.8	
Md. ....	1,816	1,950	2,085	67.6	67.6	67.3	4,1354	4,1440	1,540	74.6	73.8	74.6	50.3	49.9	50.2	
Mass. ....	3,096	2,912	3,143	78.3	70.5	73.8	2,508	2,594	2,524	81.0	89.1	80.3	63.2	62.6	59.3	
Mich. ....	4,763	5,202	5,726	81.1	83.6	87.6	4,390	3,722	3,810	73.3	71.5	68.3	59.5	58.8	59.8	
Minn. ....	(5)	2,566	2,787	(X)	94.0	95.6	1,126	1,278	1,979	2,052	(X)	77.5	73.6	69.7	72.5	70.4
Miss. ....	(NA)	(5)	1,486	(X)	(X)	86.8	466	4769	893	(X)	(X)	60.1	45.0	49.5	52.1	
Mo. ....	(5)	2,553	2,841	(X)	75.4	79.7	1,067	1,654	2,099	(X)	76.5	73.9	57.8	57.7	58.9	
Mont. ....	387	455	495	84.1	88.2	89.0	327	339	364	84.6	74.5	73.3	69.7	65.7	65.2	
Nebr. ....	712	841	856	68.7	77.6	76.0	592	624	640	83.1	74.2	74.7	57.5	57.6	56.8	
Nev. ....	231	251	298	68.5	59.1	50.7	185	206	243	80.2	82.1	81.4	51.8	48.5	41.3	
N.H. ....	450	478	551	86.3	82.7	83.0	345	359	384	76.7	75.1	69.6	66.3	62.1	67.8	
N.J. ....	3,873	3,770	3,761	73.1	72.7	69.6	3,030	3,037	2,976	82.5	80.6	79.1	60.6	68.6	55.1	
N. Mex. ....	505	527	653	79.5	68.7	73.5	396	426	456	78.3	80.8	69.9	59.0	55.5	51.4	
N.Y. ....	9,207	8,198	7,870	72.1	63.7	60.9	7,323	6,688	6,202	79.5	81.3	78.8	57.8	51.8	48.0	
N.C. ....	2,358	2,554	2,775	68.1	67.1	65.6	1,519	1,679	1,856	64.4	65.7	66.9	43.4	44.1	43.9	
N. Dak. ....	(5)	(5)	(X)	(X)	(X)	(X)	289	309	302	(X)	(X)	(X)	70.0	69.9	65.1	
Ohio ....	4,628	4,693	5,887	64.4	63.2	76.1	4,220	4,195	4,284	81.2	88.4	72.8	59.2	58.5	55.4	
Okl. ....	1,247	1,401	1,469	68.8	71.4	67.5	1,057	1,108	1,150	84.8	79.1	78.2	58.4	58.4	52.8	
Oreg. ....	1,198	1,420	1,569	79.8	85.6	81.9	953	1,049	1,182	79.6	73.9	75.3	63.4	63.3	61.6	
Pa. ....	5,872	5,750	5,754	72.0	68.0	65.6	4,592	4,621	4,582	78.2	80.4	79.3	56.1	54.7	52.0	
R.I. ....	532	545	547	79.0	81.5	77.7	416	411	416	78.2	75.4	76.0	62.0	61.5	59.0	
S.C. ....	1,034	1,113	1,236	60.8	57.9	56.6	1,674	1,803	888	65.5	72.1	71.9	38.6	41.7	40.7	
S. Dak. ....	392	426	448	90.4	92.1	89.4	308	301	328	78.6	70.7	73.2	68.9	68.8	67.4	
Tenn. ....	1,990	1,912	2,359	73.4	64.3	71.4	1,201	1,476	1,618	60.4	77.2	68.6	43.6	49.6	48.9	
Texas....	7,500	6,319	6,640	71.6	73.5	66.7	3,471	4,072	4,540	63.1	64.4	68.4	45.4	47.3	45.6	
Utah....	621	705	782	90.1	90.4	84.8	480	548	604	77.3	77.7	77.3	68.7	70.3	65.5	
Vt. ....	273	284	312	88.4	86.1	85.2	194	194	213	71.1	68.3	68.4	63.4	58.8	58.3	
Va. ....	2,107	2,124	2,309	65.9	59.7	59.4	1,457	1,716	1,866	69.1	80.8	45.5	48.3	48.0		
Wash. ....	1,975	2,065	2,237	83.3	81.1	74.5	1,520	1,585	1,742	77.0	76.8	77.9	65.9	62.3	58.0	
W. Va. ....	1,063	1,084	1,035	88.9	83.8	74.2	774	751	738	72.9	69.3	71.3	63.4	58.1	52.8	
Wis. ....	(5)	2,566	(5)	(X)	80.4	(X)	1,853	4,2104	2,273	(X)	82.0	(X)	62.0	65.9	67.7	
Wyo. ....	(NA)	195	219	(X)	72.5	67.3	152	160	177	(X)	82.1	80.5	66.4	59.5	54.2	

NA Not available. X Not applicable. <sup>1</sup> Excludes Miss. and N. Dak. <sup>2</sup> Excludes N. Dak. and Wis. <sup>3</sup> Total vote for largest race, Senator. <sup>4</sup> Total vote for largest race, President. <sup>5</sup> No required statewide registration; excluded from totals for persons registered.

\* Total vote for largest race, Governor. <sup>6</sup> Estimated.

Source: National Republican Congressional Committee, Washington, D.C., unpublished data.

## No. 827. PERCENT OF VOTING-AGE POPULATION CASTING VOTES—STATES: 1972 TO 1980

(As of November. For total resident voting-age population, see table 825)

STATE	PERCENT CASTING VOTES FOR PRESIDENTIAL ELECTORS			PERCENT CASTING VOTES FOR U.S. REPRESENTATIVES			STATE	PERCENT CASTING VOTES FOR PRESIDENTIAL ELECTORS			PERCENT CASTING VOTES FOR U.S. REPRESENTATIVES		
	1972	1976	1980	1976	1978	1980		1972	1976	1980	1976	1978	1980
U.S.	56.5	54.3	53.2	49.6	35.5	47.9	Mo.	57.5	57.7	59.1	56.3	44.2	57.7
Ala.	43.4	47.2	49.2	39.3	24.6	37.1	Mont.	67.7	69.7	65.6	62.2	52.0	61.1
Alaska	48.3	48.3	58.5	46.2	47.3	57.4	Nebr.	56.0	56.1	57.1	55.5	44.4	55.7
Ariz.	48.1	48.6	45.4	47.7	31.4	44.3	Nev.	50.9	47.5	42.5	47.0	40.1	42.0
Ark. <sup>1</sup>	48.1	52.2	51.9	22.9	19.2	12.5	N.H.	64.2	58.8	57.9	56.3	41.5	54.9
Calif.	59.9	51.3	49.7	48.6	40.3	47.3	N.J.	60.0	58.1	55.4	54.2	36.6	51.0
Colo.	60.1	60.4	56.9	57.0	40.7	55.3	N. Mex.	57.6	54.6	51.7	52.3	34.8	46.3
Conn.	56.3	62.4	61.5	60.9	44.8	58.6	N.Y.	56.6	50.8	49.2	46.6	34.0	42.6
Del.	62.3	58.4	55.1	53.2	38.1	50.7	N.C.	43.4	44.1	44.0	41.3	25.8	41.2
D.C.	30.8	33.3	35.4	31.6	19.5	30.6	N. Dak.	67.9	67.2	65.4	65.6	48.1	63.4
Fla. <sup>1</sup>	49.3	51.5	50.0	34.1	24.9	41.9	Ohio	57.5	55.4	55.6	51.8	36.8	51.3
Ga.	37.9	43.3	41.8	37.0	18.7	35.5	Oklahoma <sup>1</sup>	56.9	55.6	53.0	54.4	28.8	38.5
Hawaii	50.4	48.1	44.0	49.5	40.1	40.8	Oreg.	61.7	62.1	61.9	55.9	49.0	57.9
Idaho	63.2	61.6	66.6	61.2	47.5	65.1	Pa.	56.1	54.7	52.2	52.4	41.3	49.4
Ill.	62.7	60.6	58.1	56.0	38.3	54.7	R.I.	62.0	61.5	59.1	58.1	45.3	55.0
Ind.	60.8	60.8	57.9	57.6	38.4	55.5	S.C.	38.6	41.7	41.0	40.7	28.8	38.2
Iowa	63.3	63.7	63.1	61.9	39.2	60.7	S. Dak.	68.8	63.8	67.6	62.6	53.1	66.0
Kans.	59.0	58.4	57.2	55.5	39.6	54.4	Tenn.	43.6	49.6	49.1	42.1	34.3	39.6
Ky.	48.4	49.1	50.2	41.6	19.4	40.9	Tex.	45.4	47.3	45.8	42.6	24.0	41.0
La.	44.3	49.8	53.9	39.5	28.8	25.4	Utah	68.5	69.4	65.6	68.7	45.1	64.3
Maine	61.1	65.0	65.1	63.7	48.0	63.9	Vt.	61.1	56.9	58.2	56.0	35.1	53.3
Md.	50.3	49.9	50.5	45.6	31.0	46.0	Va.	45.5	47.7	48.2	41.1	28.4	40.1
Mass.	62.0	61.6	59.4	56.7	42.8	53.1	Wash.	63.8	61.1	58.2	56.0	35.6	54.4
Mich.	59.5	58.7	60.1	55.2	42.2	55.1	W. Va.	62.4	58.1	53.1	51.3	33.4	49.4
Minn.	68.4	71.4	70.6	65.7	53.5	65.6	Wis.	62.0	65.9	67.9	61.5	43.6	63.8
Miss.	45.0	49.5	52.3	41.0	32.3	46.2	Wyo.	63.6	58.1	54.5	58.5	43.1	52.3

<sup>1</sup> State law does not require tabulation of votes for unopposed candidates.Source: Compiled by U.S. Bureau of the Census. Population data from U.S. Bureau of the Census, *Current Population Reports*, series P-25, No. 879, and unpublished data; votes cast from Elections Research Center, Washington, D.C., *America Votes*, biennial (copyright).

## No. 828. VOTING-AGE POPULATION, AND PERCENT REPORTING REGISTERED AND VOTED: 1972 TO 1980

(See headnote, table 829)

CHARACTERISTIC	VOTING-AGE POPULATION (mil.)					PERCENT REPORTING THEY REGISTERED					PERCENT REPORTING THEY VOTED				
	1972	1974	1976	1978	1980	1972	1974	1976	1978	1980	1972	1974	1976	1978	1980
Total	136.2	141.3	146.5	151.6	157.1	72.3	62.2	66.7	62.6	66.9	63.0	44.7	59.2	45.9	59.2
White	121.2	125.1	129.3	133.4	137.7	73.4	63.5	68.3	63.8	68.4	64.5	46.3	60.9	47.3	60.9
Black	13.5	14.2	14.9	15.5	16.4	6.5	54.9	58.5	57.1	60.0	52.1	33.8	48.7	37.2	50.5
Spanish origin <sup>1</sup>	5.6	6.1	6.6	6.8	8.2	44.4	34.9	37.8	32.9	36.3	37.4	22.9	31.8	23.5	29.9
Male	63.8	66.4	69.0	71.5	74.1	73.1	62.8	67.1	62.6	66.6	64.1	46.2	59.6	46.6	59.1
Female	72.4	74.9	77.6	80.2	83.0	71.6	61.7	66.4	62.5	67.1	62.0	43.4	58.8	45.3	58.4
North and West <sup>2</sup>	93.7	96.5	99.4	102.9	106.5	73.9	63.3	67.7	63.8	67.9	66.4	48.8	61.2	48.9	61.0
South <sup>2</sup>	42.6	44.8	47.1	48.8	50.6	68.7	59.8	64.6	60.1	64.8	55.4	36.0	54.9	39.6	55.6
Metropolitan <sup>3</sup>	99.2	101.3	99.6	103.1	106.7	72.5	61.2	65.7	61.3	65.8	64.3	44.7	59.2	46.0	58.8
In central cities	42.4	43.9	43.1	43.7	44.0	70.9	59.5	63.3	59.2	63.5	62.2	42.6	56.6	44.2	56.3
Outside central cities	56.9	57.4	56.5	58.4	62.6	73.8	62.6	67.6	62.8	67.3	65.9	46.3	61.2	47.4	60.8
Nonmetropolitan	37.0	40.0	47.0	48.6	50.5	71.7	64.7	68.8	65.3	69.2	59.4	44.7	59.1	45.6	60.2
18-20 yr.	11.0	11.6	12.1	12.2	12.3	58.1	36.4	47.1	34.7	44.7	48.3	20.8	38.0	20.1	35.7
21-24 yr.	13.6	14.1	14.8	15.5	15.9	59.5	45.3	54.8	45.1	52.7	50.7	26.4	45.6	26.2	43.1
25-44 yr.	49.1	51.7	54.3	57.5	61.3	71.3	59.9	65.5	60.2	65.6	62.7	42.2	58.7	43.1	58.7
45-64 yr.	42.3	43.0	43.3	43.4	43.6	79.7	73.6	75.5	74.3	75.8	70.8	56.9	68.7	58.5	69.3
65 yr. and over	20.1	21.0	22.0	23.0	24.1	75.6	70.2	71.4	72.8	74.6	63.5	51.4	62.2	55.9	65.1
Employed	80.2	83.1	86.0	92.3	95.0	74.3	63.8	68.8	63.0	68.7	66.0	46.8	62.0	46.7	61.8
Unemployed	3.7	5.0	6.4	4.9	8.9	58.7	44.4	52.1	44.1	50.3	49.9	28.8	43.7	27.4	41.2
Not in labor force	52.3	53.2	54.1	53.5	55.2	70.3	61.3	65.2	63.4	65.8	59.3	43.0	56.5	46.2	57.0

<sup>1</sup> Persons of Spanish origin may be of any race. <sup>2</sup> See fig. 1, inside front cover. <sup>3</sup> Standard metropolitan statistical areas as defined in 1970 census publications.Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 359, earlier issues, and forthcoming report.

**NO. 829. PARTICIPATION IN NATIONAL ELECTIONS, 1964 TO 1980, AND BY POPULATION CHARACTERISTICS, 1980**

[As of November. Covers civilian noninstitutional population 18 years old and over, except 1964-1970, 21 years old and over (see also footnote 1, table 824). Includes aliens. Figures are based on Current Population Survey (see text, p. 1, and Appendix III) and differ from those in tables 824 and 827 based on population estimates and official vote counts. Differences in percentages may also be due to overreporting of voting (reluctance of some persons in the sample who actually did not vote to so report)]

YEAR AND CHARACTERISTIC	Persons of voting age (mil.)	PERSONS REPORTING THEY REGISTERED		PERSONS REPORTING THEY VOTED		PERSONS REPORTING THEY DID NOT VOTE			REASONS FOR NOT REGISTERING	
		Total (mil.)	Per- cent	Total (mil.)	Per- cent	Total (mil.)	Regis- tered (mil.)	Not registered ¹ Num- ber (mil.)	Per- cent	Per- cent unable to register
									Per- cent not a citizen	
1964 .....	110.6	(NA)	(NA)	76.7	69.3	33.9	(NA)	(NA)	(NA)	(NA)
1966 .....	112.8	79.3	70.3	62.5	55.4	50.3	16.8	33.1	29.3	(NA)
1968 .....	116.5	86.6	74.3	79.0	67.8	37.6	7.6	30.0	25.7	(NA)
1970 .....	120.7	82.2	68.1	65.9	54.8	54.8	16.3	38.5	31.9	(NA)
1972 .....	136.2	98.5	72.3	85.8	63.0	50.4	12.7	37.7	27.7	(NA)
1974 .....	141.3	87.9	62.2	63.2	44.7	78.1	24.7	53.4	37.8	11.4
1976 .....	146.5	97.8	66.7	86.7	59.2	59.9	11.1	48.8	33.3	5.7
1978 .....	151.6	94.9	62.6	69.6	45.9	82.1	25.3	56.8	37.4	8.0
1980, total <sup>²</sup> .....	157.1	105.0	66.9	93.1	59.2	64.0	12.0	52.1	33.1	4.0
Male .....	74.1	49.3	66.6	43.8	59.1	30.3	5.6	24.7	33.4	6.0
Female .....	83.0	55.7	67.1	49.3	59.4	33.7	6.4	27.3	32.9	6.4
White .....	137.7	94.1	68.4	83.9	60.9	53.8	10.3	43.6	31.6	6.0
Black .....	16.4	9.8	60.0	8.3	50.5	6.1	1.6	6.6	40.0	7.8
Spanish origin <sup>³</sup> .....	8.2	3.0	36.3	2.5	29.9	5.8	.5	5.3	63.7	6.5
18-20 yr. old .....	12.3	5.5	44.7	4.4	35.7	7.9	1.1	6.8	55.3	5.1
21-24 yr. old .....	15.9	8.4	52.7	6.8	43.1	9.0	1.5	7.5	47.3	4.8
25-34 yr. old .....	35.7	22.2	62.0	19.5	54.6	18.2	2.7	13.6	38.0	7.2
35-44 yr. old .....	25.6	18.0	70.8	16.5	64.4	9.1	1.6	7.5	29.4	4.7
45-64 yr. old .....	43.6	33.0	75.8	30.2	59.3	13.4	2.8	10.5	24.2	3.8
65 yr. and over .....	24.1	18.0	74.6	15.7	65.1	8.4	2.3	6.1	25.4	6.7
Median age <sup>⁴</sup> (yr.) .....	40.7	44.2	(X)	44.6	(X)	34.3	39.5	33.6	(X)	(X)
North and West <sup>⁵</sup> .....	106.5	72.3	67.9	65.0	61.0	41.6	7.3	34.2	32.1	(NA)
South <sup>⁶</sup> .....	50.6	32.7	64.8	28.1	55.6	22.5	4.6	17.8	35.2	(NA)
Metropolitan <sup>⁷</sup> .....	106.7	70.1	65.8	62.7	58.8	43.9	7.4	36.5	34.2	(NA)
In central cities .....	64.0	27.9	63.5	24.8	58.3	19.2	3.2	16.1	36.5	(NA)
Outside central cities .....	62.6	42.2	67.3	37.9	60.6	24.7	4.2	20.4	32.7	(NA)
Nonmetropolitan .....	50.5	34.9	69.2	30.4	60.2	20.1	4.6	15.5	30.8	(NA)
School years completed:										
8 yr. or less .....	22.7	12.0	53.0	9.6	42.6	13.0	2.4	10.7	47.0	(NA)
9-11 yr. ....	22.5	12.3	54.6	10.2	45.6	12.2	2.0	10.2	45.4	(NA)
12 yr. ....	61.2	40.6	66.4	36.0	58.9	25.2	4.6	20.6	33.6	(NA)
More than 12 yr. ....	50.8	40.2	79.1	37.2	73.2	13.6	3.0	10.8	20.9	(NA)
Employed .....	95.0	65.3	68.7	58.8	61.8	36.3	6.5	29.8	31.3	5.4
Unemployed .....	6.9	3.5	50.3	2.8	41.2	4.1	.6	3.4	49.7	9.0
Not in labor force .....	55.2	36.3	65.8	31.4	57.0	23.7	4.9	18.8	34.2	7.2
Owner occupied <sup>⁸</sup> .....	44.2	34.4	77.8	31.4	71.1	12.8	3.0	9.8	22.2	(NA)
Renter occupied <sup>⁹</sup> .....	14.9	7.5	50.8	6.3	42.1	8.6	1.3	7.3	49.2	(NA)

NA Not available. X Not applicable. <sup>¹</sup> Includes do not know and not reported. <sup>²</sup> Includes characteristics not shown separately. <sup>³</sup> Persons of Spanish origin may be of any race. <sup>⁴</sup> For definition of median, see Guide to Tabular Presentation.

<sup>⁵</sup> See fig. I, inside front cover. <sup>⁶</sup> Standard metropolitan statistical areas as defined in 1970 census publications. <sup>⁷</sup> Covers family households only; see text, p. 4.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 359, earlier issues, and forthcoming report.

**NO. 830. ELECTION CAMPAIGN COSTS FOR NATIONAL OFFICES: 1972**

[Includes some prenomination expenditures. Data are provided by the U.S. General Accounting Office, Office of Federal Elections (O.F.E.), created to administer the Federal Elections Campaign Act of 1971, effective as of April 7, 1972. In 1972, 1,785 committees which contributed in some way, but not exclusively to a Presidential candidate, filed reports with the O.F.E. Labor, business, professional, and ideological committees spent \$6.0 million. Except for congressional spending, all other figures are from the O.F.E.]

ITEM	Total	PRESIDENTIAL AND PARTY COMMITTEES			Congres- sional
		Total	Democratic	Republican	
Campaign costs (mil. dol.).....	225.2	137.3	66.8	69.3	1.2
Percent distribution.....	100.0	61.0	29.7	30.8	.5

Source: Citizens' Research Foundation, Princeton, N.J., unpublished data.

**NO. 831. PRESIDENTIAL CAMPAIGN FINANCES—PRIMARY AND GENERAL ELECTION RECEIPTS AND EXPENDITURES, BY POLITICAL PARTY: 1975–1976**

[In millions of dollars. Covers Jan. 1, 1975-Dec. 31, 1976. Based on disclosure documents submitted by candidates, their principal campaign committees, and other authorized committees. Figures adjusted to eliminate refunds and rebates, refunded contributions, loan repayments, and transfers to or from affiliated committees]

RECEIPTS AND EXPENDITURES	PRESIDENTIAL CAMPAIGN				PRIMARY CAMPAIGN			GENERAL ELECTION CAMPAIGN			
	Total	Democratic	Republi-can	Other <sup>1</sup>	Total	Democratic	Republi-can	Total	Democratic	Republi-can	Other <sup>1</sup>
Receipts, total.....	114.0	61.7	50.2	2.0	67.9	39.6	28.3	46.1	22.1	22.0	2.0
Private funds <sup>2</sup> .....	46.1	25.4	18.7	2.0	43.6	25.1	18.5	2.5	.3	.2	2.0
U.S. Treasury funds <sup>3</sup> .....	67.9	36.3	31.6	—	24.3	14.5	9.7	43.6	21.8	21.8	—
Expenditures, total.....	112.8	62.9	48.0	2.0	66.9	40.7	26.2	45.9	22.2	21.8	2.0

— Represents zero.

<sup>1</sup> Covers candidates who were on the ballot in 10 or more States. Included under general election since a majority of their financial activity was directed toward that area. <sup>2</sup> Covers contributions, outstanding loans, interest, and miscellaneous income. <sup>3</sup> Represents matching funds given to qualified candidates in the primary campaign and grant funds to the Democratic and Republican party candidates in the general election.

Source: U.S. Federal Election Commission, FEC Disclosure, No. 7: 1976 *Presidential Campaign Receipts and Expenditures*, 1977.

**NO. 832. CONGRESSIONAL CAMPAIGN FINANCES—ADJUSTED RECEIPTS AND EXPENDITURES: 1975 TO 1978**

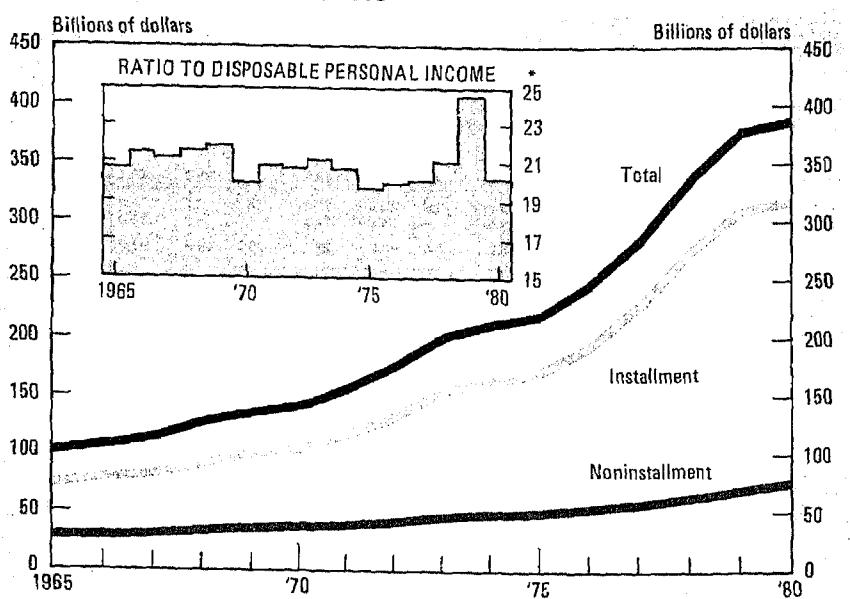
[Covers all campaign finance activity during 2 year calendar period indicated for primaries and general elections. For 1975–1976, relates to 860 candidates for House of Representatives who received 5 percent or more of the votes in the general election and to 64 candidates for the Senate; and for 1977–1978, to 1,009 candidates for House of Representatives and Senate. 1975–1976 data adjusted to exclude refunds, rebates, returned contributions, loan repayments, treasury notes, and certificates of deposits which were bought and redeemed]

ITEM	HOUSE				SENATE			
	1975–1976		1977–1978		1975–1976		1977–1978	
	Amount (mil. dol.)	Percent distribu- tion	Amount (mil. dol.)	Percent distribu- tion	Amount (mil. dol.)	Percent distribu- tion	Amount (mil. dol.)	Percent distribu- tion
Total receipts.....	65.7	100.0	113.9	100.0	39.1	100.0	85.5	100.0
Contributions:								
Less than \$101 .....	23.7	36.0	(NA)	(NA)	11.1	28.3	(NA)	(NA)
\$101–\$499 .....	7.5	11.5	11.1	9.7	5.2	13.4	8.5	10.0
\$500 and over .....	7.3	11.1	14.6	12.8	10.6	27.1	18.3	21.4
Candidate.....	2.4	3.6	(NA)	(NA)	.9	2.3	(NA)	(NA)
Party committee .....	5.1	7.8	5.0	4.4	1.4	3.6	1.2	1.5
Non-party committee .....	14.7	22.4	24.4	21.5	5.8	14.8	9.7	11.3
Loans outstanding:								
Candidate.....	<sup>1</sup> 4.1	<sup>1</sup> 6.2			<sup>1</sup> 3.7	<sup>1</sup> 9.4		
Other.....	<sup>1</sup> .6	<sup>1</sup> .9	(NA)	(NA)	<sup>1</sup> .1	<sup>1</sup> .2	(NA)	(NA)
Other receipts.....	.3	.5			.4	.9		
Democrats.....	35.1	53.3	63.7	56.0	19.5	50.0	42.6	49.9
Republicans.....	30.2	46.0	49.4	43.3	18.8	48.0	42.4	49.5
Others.....	.5	.7	.8	.6	.8	2.0	.5	.6
Incumbents .....	35.1	53.4	46.6	40.9	16.3	42.0	30.0	35.1
Challengers.....	18.4	27.9	32.1	28.2	10.6	27.0	30.1	35.2
Open seats <sup>2</sup> .....	12.3	18.7	35.2	30.9	12.3	31.0	25.4	29.7
Winners .....	42.5	64.8	(NA)	(NA)	21.1	53.8	(NA)	(NA)
Losers.....	23.8	35.4			18.1	46.2		
Total expenditures.....	60.9	100.0	109.7	100.0	38.1	100.0	85.2	100.0
Democrats.....	32.4	53.1	61.3	55.9	18.8	49.0	42.1	49.4
Republicans.....	28.1	46.1	47.6	43.4	18.5	49.0	42.6	50.0
Other.....	.5	.8	.8	.7	.8	2.0	.5	.6
Incumbents .....	30.7	50.2	43.1	39.3	15.6	41.0	30.2	35.4
Challengers.....	18.1	30.0	31.9	29.0	10.4	27.0	30.1	35.3
Open seats <sup>2</sup> .....	12.1	19.8	34.7	31.7	12.1	32.0	24.9	29.3
Winners .....	38.1	62.4	(NA)	(NA)	20.3	53.4	(NA)	(NA)
Losers.....	22.9	37.6			17.8	46.6		

NA Not available. <sup>1</sup> As of Dec. 31, 1976. <sup>2</sup> Elections in which an incumbent was not a candidate.

Source: U.S. Federal Election Commission, 1975–1976, FEC Disclosure Series, No. 6: 1976 *Senatorial Campaigns Receipts and Expenditures*, and No. 9: 1976 *House of Representatives Campaigns Receipts and Expenditures*, 1977; 1977–1978, Reports on Financial Activity, 1977–78, Interim Report No. 5, U.S. Senate and House Campaigns, June 1979.

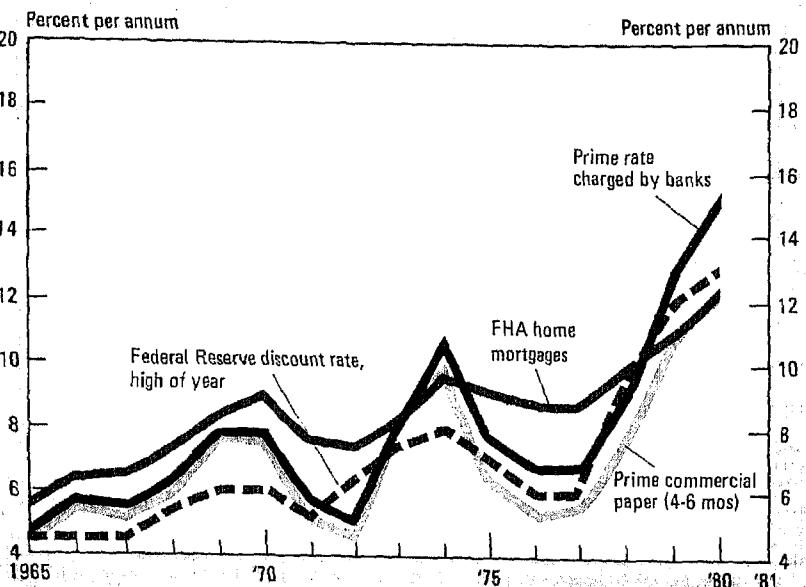
**Figure 17.1**  
**Consumer Credit: 1965 to 1980**



\*Percent.

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 865.

**Figure 17.2**  
**Money Market Rates: 1965 to 1980**



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 873 and 876.

1981  
1981

## Section 17

# Banking, Finance, and Insurance

This section presents data on the Nation's finances, various types of financial institutions, money and credit, securities, and insurance. The primary sources of these data are publications of several departments of the Federal Government, especially the Treasury Department, and independent agencies such as the Federal Deposit Insurance Corporation, the Federal Reserve System, and the Securities and Exchange Commission. National data on insurance are available primarily from private organizations, such as the American Council of Life Insurance.

**Flow of funds.**—The flow of funds accounts of the Federal Reserve System (see tables 833 to 838) bring together statistics on all of the major forms of financial transactions and financial claims to present an economy-wide view of asset and liability relationships. In flow form, the accounts relate borrowing and lending to one another and to the nonfinancial activities that generate income and production. Each claim outstanding is included simultaneously as an asset of the lender and as a liability of the debtor. The accounts also indicate the balance between asset totals and liability totals over the economy as a whole. Five publications of the Board of Governors of the Federal Reserve System contain information on the flow of funds accounts: Summary data on flows, in the *Federal Reserve Bulletin, Flow of Funds Accounts, 1949-1978, Assets and Liabilities Outstanding, 1969-1979*, and *Annual Statistical Digest*; and concepts and organization of the accounts, in *Introduction to Flow of Funds* (June 1980).

**Banking system.**—Banks in this country are organized under the laws of both the States and the Federal Government. State-chartered banks are supervised by officials of the respective States. National banks are supervised by the Comptroller of the Currency. *Reports of Condition* have been collected from national banks since 1863. Summaries of these reports are published in the Comptroller's *Annual Report*, which also presents data on the structure of the national banking system.

The Federal Reserve System was established in 1913 to exercise central banking functions, some of which are shared with the U.S. Treasury. It includes national banks and such State banks as voluntarily join the System. Statements of State bank members are consolidated by the Board of Governors of the Federal Reserve System with data for national banks collected by the Comptroller of the Currency into totals for all member banks of the System. Balance sheet data for member banks and other commercial banks are published in condensed form in the *Federal Reserve Bulletin*.

The Federal Deposit Insurance Corporation (FDIC), established in 1933, insures each depositor up to \$100,000 currently in banks that are members of the Federal Reserve System and in such nonmember banks as join the insurance fund. A balance sheet for all banks in the country is published in the FDIC's *Annual Report*. Major item balance sheets for all commercial banks are published monthly in the *Federal Reserve Bulletin*.

**Savings and loan and other credit agencies.**—Savings and loan associations, insurance companies, finance companies dealing primarily in installment sales financing, credit unions, and personal loan companies represent important sources of funds for the credit market. Savings and loan associations are primarily involved in credit extension in the form of loans. Statistics on savings and loan associations are collected by the Federal Home Loan Bank Board. Statistics on loans, investments, cash, etc., of life insurance companies are published principally by the American Council of Life Insurance in its *Life Insurance Fact Book*. Consumer credit data are published currently in the *Federal Reserve Bulletin*.

Federally chartered credit unions are under the supervision of the National Credit Union Administration, established in 1970. State-chartered credit unions are supervised by the respective State supervisory authorities. The Administration publishes comprehensive program and statistical information on all Federal and federally insured State credit unions in the *Annual Report of the National Credit Union Administration* and also publishes an *Annual Report* on the operations of all State-chartered credit unions.

Government corporations and credit agencies make available credit of specified types or to specified groups of private borrowers, either by lending directly or by insuring or guaranteeing loans made by private lending institutions. Data on operations of Government credit agencies, along with other Government corporations, are available in reports of individual agencies; data on their assets and liabilities are published in the *Treasury Bulletin*.

**Currency.**—Currency, including coin and paper money, represents more than one-fourth of all media of exchange in the United States, with most payments made by check. All currency is now issued by the Federal Reserve Banks.

"Currency and coin in circulation" (official *Statement of United States Currency and Coin*) refers to all coin and paper money issued by the Federal Reserve Banks, except gold and silver coin known to have been exported and, beginning with 1934, all gold coin. It includes all coin and paper money held by the public in the United States. It also includes cash in vaults of commercial and savings banks, currency irretrievably lost or destroyed by natural causes, and currency carried abroad by travelers.

**Securities.**—The Securities and Exchange Commission (SEC) was established in 1934 to protect the interests of the public and investors against malpractices in the securities and financial markets and to provide the fullest possible disclosure of information regarding securities to the investing public. Since its inception, the SEC has compiled a comprehensive monthly data series on new corporate securities offerings that covers substantially all new issues offered for cash sale in the United States in amounts over \$100,000 and with terms to maturity of more than one year. This series is published monthly in the *SEC Monthly Statistical Review*.

**Insurance.**—Insuring companies, which are regulated by the various States or the District of Columbia, are classified as either life or property. Companies that underwrite accident and health insurance only and those that underwrite accident and health insurance in addition to one or more property lines are included with property insurance. Insuring companies, other than those classified as life, are permitted to underwrite one or more property lines provided they are so licensed and have the necessary capital or surplus.

There are a number of published sources for statistics on the various classes of insurance—life, health, fire, marine, and casualty. Individual States collect data on all insurers operating within their respective jurisdictions, and many of the States publish an annual insurance report giving individual company data and aggregates of certain items for the companies operating within the State. Organizations representing certain classes of insurers publish reports for these classes. Among them are the annual commercial publishers, such as The National Underwriter Company whose *Argus Chart* (annual) contains financial and operating data for individual health and accident insurance companies, including Blue Cross and Blue Shield Plans. The American Council of Life Insurance publishes statistics on life insurance purchases, ownership, benefit payments, and assets in its annual *Life Insurance Fact Book*.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*, Appendix I.

# Flow of Funds

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## No. 833. FLOW OF FUNDS ACCOUNTS—FINANCIAL ASSETS AND LIABILITIES OF FINANCIAL AND NONFINANCIAL INSTITUTIONS, BY SECTOR AND TYPE OF INSTRUMENT: 1980

[In billions of dollars. As of Dec. 31. Preliminary. A=Assets; L=Liabilities. SDR=Special drawing rights, IMF=International Monetary Fund. RP's=Repurchase Agreements. "N.e.c."=Not elsewhere classified]

TYPE OF INSTRUMENT	TOTAL		PRIVATE DOMESTIC NONFINANCIAL INSTITUTIONS									
	A	L	Total		Households		Business		State and local govts.			
			A	L	A	L	A	L	A	L		
Financial assets .....	10,537.1	(X)	5,622.5	(X)	4,395.2	(X)	1,016.8	(X)	210.4	(X)		
Liabilities .....	8,877.1		3,845.3		1,494.5		1,823.2		327.6			
Gold stock and SDR's.....	72.2	-	-	-	-	-	-	-	-	-		
IMF position .....	2.9	2.9	-	-	-	-	-	-	-	-		
Official foreign exchange .....	10.1	10.1	-	-	-	-	-	-	-	-		
Treasury currency.....	15.9	13.6	-	-	-	-	-	-	-	-		
Demand deposits and currency .....	415.3	445.1	346.1	-	241.9	-	92.2	-	12.0	-		
Time and savings accounts .....	1,492.7	1,492.7	1,404.9	-	1,299.7	-	41.3	-	64.0	-		
Fed. funds and security RP's .....	56.5	110.7	35.0	-	-	-	20.0	-	15.1	-		
Money market fund shares.....	74.4	74.4	74.4	-	74.4	-	-	-	-	-		
Life insurance reserves .....	223.2	223.2	223.2	-	223.2	-	-	-	-	-		
Pension fund reserves.....	729.8	729.8	728.8	-	729.8	-	-	-	-	-		
Interbank claims .....	43.7	31.5	-	-	-	-	-	-	-	-		
Corporate equities <sup>1</sup> .....	1,571.4	55.2	1,141.4	-	1,141.4	-	-	-	-	-		
Credit market instruments <sup>2</sup> .....	4,648.5	4,648.5	797.3	3,140.5	592.5	1,437.7	97.7	1,391.5	107.1	311.3		
U.S. Treasury securities <sup>3</sup> .....	737.8	737.8	275.2	-	227.3	-	.5	-	47.5	-		
Federal agency securities <sup>4</sup> .....	306.8	306.8	84.1	-	61.6	-	1.7	-	20.9	-		
State and local securities .....	325.5	325.5	75.2	325.5	62.9	-	3.4	21.8	8.8	303.7		
Corporate and foreign bonds .....	490.4	490.4	82.5	367.0	82.5	-	-	367.0	-	-		
Mortgages.....	1,449.6	1,449.6	157.4	1,437.8	127.5	-	967.4	-	470.4	29.8		
Consumer credit .....	387.5	387.5	51.0	387.5	-	387.5	51.0	-	-	-		
Bank loans, n.e.c. ....	458.6	458.6	-	368.8	-	28.3	-	340.5	-	-		
Open-market paper .....	177.8	177.8	71.9	42.1	30.8	-	41.1	42.1	-	-		
Security credit .....	59.0	59.0	15.1	27.6	15.1	27.6	-	-	-	-		
Trade credit <sup>5</sup> .....	490.3	417.0	486.1	385.1	-	16.0	438.1	352.6	-	16.3		
Taxes payable .....	25.1	28.3	12.3	17.6	-	-	-	17.8	12.3	-		
Miscellaneous claims .....	606.3	635.0	404.7	74.5	77.1	13.2	327.6	-	61.4	-		
 U.S. GOVERNMENT												
FINANCIAL INSTITUTIONS												
		Total <sup>6</sup>		Monetary authority		Commercial banks		Nonbank finance				
		A	L	A	L	A	L	A	L	A	L	
Financial assets .....	242.3	(X)	4,237.8	(X)	173.4	(X)	1,364.7	(X)	2,364.9	(X)	434.6	(X)
Liabilities .....	858.5		4,005.6		173.4		1,283.9		2,217.6		467.7	
Gold stock and SDR's.....	2.6	-	11.2	-	11.2	-	-	-	-	-	58.4	-
IMF position .....	2.9	-	.1	-	.1	-	-	-	-	-	2.9	-
Official foreign exchange .....	5.0	-	5.1	-	5.1	-	-	-	-	-	10.1	-
Treasury currency.....	13.6	15.9	-	15.9	-	-	-	-	-	-	-	-
Demand deposits and currency .....	15.9	-	28.3	445.1	-	120.7	2.8	324.4	26.0	-	24.0	-
Time and savings accounts .....	1.1	-	60.2	1,492.7	-	-	-	763.8	60.2	728.9	26.5	-
Fed. funds and security RP's .....	-	-	21.4	110.7	-	-	-	101.9	15.3	8.8	-	-
Money market fund shares.....	-	-	-	74.4	-	-	-	-	-	74.4	-	-
Life insurance reserves .....	-	9.6	-	213.6	-	-	-	-	-	213.6	-	-
Pension fund reserves.....	-	76.4	-	653.4	-	-	-	-	-	653.4	-	-
Interbank claims .....	-	-	54.1	31.5	6.3	47.8	47.8	-16.3	-	362.9	55.2	67.5
Corporate equities <sup>1</sup> .....	-	-	362.4	55.2	-	-	.1	-	-	-	-10.4	-
Credit market instruments <sup>2</sup> .....	178.0	742.8	3,492.4	555.4	131.4	-	1,247.4	32.2	1,789.5	220.8	180.7	209.9
U.S. Treasury securities <sup>3</sup> .....	737.8	329.3	121.3	-	-	-	112.3	-	93.5	-	-	-
Federal agency securities <sup>4</sup> .....	39.4	4.5	183.2	302.3	9.3	-	59.0	-	114.3	-	-	-
State and local securities .....	-	-	250.3	-	-	-	151.1	-	99.2	-	-	-
Corporate and foreign bonds .....	-	-	395.1	75.8	-	-	8.1	6.3	387.0	69.5	12.8	47.8
Mortgages.....	14.0	.5	1,278.3	11.3	-	-	284.6	-	770.8	11.3	-	-
Consumer credit .....	-	-	336.4	-	-	-	176.7	-	158.8	-	-	-
Bank loans, n.e.c. ....	-	-	458.6	29.3	-	-	458.6	-	-	29.3	-	60.5
Open-market paper .....	-	-	71.2	87.7	.8	-	16.9	25.9	53.1	61.8	34.7	48.0
Security credit .....	-	-	43.9	31.3	-	-	20.1	-	23.8	31.3	-	-
Trade credit <sup>5</sup> .....	14.3	16.1	15.0	-	-	-	-	-	15.0	-	22.9	15.9
Taxes payable .....	12.8	-	126.8	10.8	-	-	-	.9	-	9.8	-	-
Miscellaneous claims .....	9.7	(Z)	331.5	3.6	4.9	46.4	77.0	72.7	221.3	65.0	228.9	-

- Represents zero. X Not applicable. Z Less than \$50 million. <sup>1</sup> Assets shown at market value; nonbank finance liability is redemption value of shares of open-end investment companies. No specific liability attributed to issuers of stocks other than open-end investment companies for amounts outstanding. <sup>2</sup> Includes "Other loans," not shown separately. <sup>3</sup> Includes savings bonds and other nonmarketable debt held by public. <sup>4</sup> Issues by agencies in the budget and by sponsored credit agencies in financial sectors, issues backed by mortgage pools, and loan participation certificates. <sup>5</sup> Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables. <sup>6</sup> Includes federally sponsored credit agencies and mortgage pools, not shown separately.

**NO. 834. FLOW OF FUNDS ACCOUNTS—FINANCIAL ASSETS OF FINANCIAL AND NONFINANCIAL INSTITUTIONS, BY HOLDER SECTOR: 1960 TO 1980**

[In billions of dollars. As of Dec. 31. See also *Historical Statistics, Colonial Times to 1970*, series X 192, X 229, X 821, and X 835]

SECTOR	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980
All sectors .....	1,998	2,981	4,585	5,361	6,000	6,793	7,403	8,324	9,357	10,537
Households .....	973	1,469	2,153	2,201	2,552	2,944	3,118	3,422	3,836	4,395
Nonfinancial business .....	211	292	447	566	610	668	727	826	950	1,017
Farm .....	8	9	12	14	15	16	18	20	22	25
Nonfarm noncorporate .....	22	25	30	35	38	41	44	49	54	57
Nonfinancial corporations .....	182	259	406	517	558	610	665	757	874	935
U.S. Government .....	54	71	93	106	123	145	156	186	213	242
U.S. Government-sponsored credit agencies and mortgage pools .....	12	20	57	112	127	148	175	222	283	335
State and local government .....	33	50	79	120	134	134	159	184	190	210
Monetary authorities .....	53	64	95	113	125	135	143	156	167	173
Commercial banking .....	228	341	562	795	826	891	989	1,130	1,252	1,365
Nonbank finance .....	370	588	940	1,128	1,282	1,463	1,634	1,841	2,070	2,365
Savings and loan associations .....	72	130	206	296	338	392	459	524	579	630
Life Insurance .....	116	154	215	255	280	311	340	378	421	467
Other insurance .....	26	37	57	68	77	94	113	133	157	185
Private pension funds .....	38	74	130	116	147	172	179	199	222	286
Government retirement funds <sup>1</sup> .....	20	34	69	88	105	121	133	153	170	203
Finance companies .....	28	45	69	95	98	107	127	146	169	180
Mutual savings banks .....	41	58	91	110	122	136	150	161	164	173
Credit unions .....	6	11	21	31	37	43	52	58	62	71
Investment companies .....	17	35	67	34	42	47	49	43	46	55
Money market funds .....	-	-	-	2	4	4	4	11	45	74
Security brokers and dealers .....	7	10	18	15	18	27	30	29	28	35
Real estate investment trusts .....	-	-	6	18	14	10	7	7	7	7
Rest of the world .....	63	87	160	220	233	266	301	358	396	435

- Represents zero.

<sup>1</sup> State and local government.

**NO. 835. FLOW OF FUNDS ACCOUNTS—ASSETS AND LIABILITIES OF HOUSEHOLDS, BY TYPE OF INSTRUMENT: 1960 TO 1980**

[As of December 31. See also *Historical Statistics, Colonial Times to 1970*, series X 114-147]

TYPE OF INSTRUMENT	TOTAL (bil. dol.)						PERCENT DISTRIBUTION		
	1960	1965	1970	1975	1979	1980	1960	1970	1980
Total financial assets .....	973.4	1,488.7	2,152.7	2,551.5	3,836.2	4,395.2	100.0	100.0	100.0
Deposit and market instruments <sup>1</sup> .....	387.5	552.9	872.5	1,314.5	2,029.8	2,208.6	39.8	40.5	50.3
Demand deposits and currency .....	73.2	88.4	129.8	166.9	235.7	241.9	7.5	6.0	5.5
Time and savings accounts <sup>2</sup> .....	164.1	288.7	494.5	772.6	1,174.8	1,298.7	16.9	23.0	29.6
Money market fund shares .....	-	-	-	3.7	45.2	74.4	-	-	1.7
Credit market instruments .....	150.2	175.8	248.2	371.3	574.1	592.5	15.4	11.5	13.5
U.S. Government securities .....	74.0	82.0	97.0	152.8	268.9	288.8	7.6	4.5	6.6
Treasury issues .....	71.5	76.0	76.5	133.4	209.8	227.3	7.3	3.6	5.2
Savings bonds .....	45.6	49.7	54.4	67.4	78.8	72.5	4.7	2.5	1.6
Other Treasury .....	25.9	26.3	22.1	66.0	129.9	154.7	2.7	1.0	3.5
Agency issues .....	2.5	6.0	20.5	19.4	59.1	61.6	.3	1.0	1.4
State and local obligations .....	30.8	36.4	46.1	68.1	86.5	82.9	3.2	2.1	1.4
Corporate and foreign bonds .....	10.0	9.5	43.1	63.5	76.2	82.5	1.0	2.0	1.9
Mortgages .....	33.4	42.2	54.1	71.8	122.6	127.5	3.4	2.5	2.9
Open-market paper .....	2.0	5.6	7.9	15.1	39.9	30.8	.2	.4	.7
Corporate equities .....	395.5	635.6	834.1	859.7	918.0	1,141.4	40.6	38.7	26.0
Investment company shares .....	17.0	35.2	56.7	42.2	46.2	55.2	1.7	2.6	1.3
Other corporate equities .....	978.4	600.4	777.4	817.5	871.9	1,086.3	38.9	36.1	24.7
Life insurance reserves .....	85.2	105.9	136.8	186.6	211.2	223.2	8.8	6.4	5.1
Pension fund reserves .....	90.8	154.8	275.8	365.7	599.4	729.8	9.3	12.8	16.6
Security credit .....	1.1	2.5	4.9	4.5	9.0	15.1	.1	.2	.3
Miscellaneous assets .....	13.3	17.0	28.7	40.6	68.9	77.1	1.4	1.3	1.8
Total assets .....	228.2	350.0	550.0	801.2	1,378.6	1,494.5	100.0	100.0	100.0
Credit market instruments .....	218.4	343.6	526.6	772.3	1,331.7	1,437.7	95.7	95.6	96.2
Mortgages .....	145.8	227.9	337.4	503.8	876.9	967.4	63.9	61.3	64.7
Installment consumer credit .....	45.1	73.9	118.3	172.4	311.3	313.4	19.8	21.5	21.0
Other consumer credit .....	20.1	29.3	39.5	50.9	72.8	74.0	8.8	7.2	5.0
Bank loans, n.e.c. <sup>3</sup> .....	1.2	2.5	9.2	13.7	22.1	28.3	.5	1.7	1.8
Other loans .....	6.3	10.0	22.3	31.5	45.8	54.5	2.8	4.0	3.6
Trade credit .....	5.4	9.1	13.1	12.1	20.6	27.6	2.4	2.4	1.8
Unpaid life insurance premiums <sup>4</sup> .....	2.4	3.3	5.4	7.7	11.7	13.2	1.1	1.0	1.1

<sup>1</sup> Represents zero. <sup>2</sup> Excludes corporate equities. <sup>3</sup> Includes savings accounts at commercial banks and savings institutions. <sup>4</sup> "N.e.c." means not elsewhere classified. <sup>5</sup> Includes deferred premiums.

Source of tables 834 and 835: Board of Governors of the Federal Reserve System, *Flow of Funds Accounts, 1949-1978; Assets and Liabilities Outstanding, 1969-1979*; and *Annual Statistical Digest*.

**NO. 836. FLOW OF FUNDS ACCOUNTS—ASSETS AND LIABILITIES OF PRIVATE NONBANK FINANCIAL INSTITUTIONS, BY TYPE OF TRANSACTION: 1980**

[In billions of dollars. As of Dec. 31. Preliminary. A=Assets; L=Liabilities; "N.e.c."=Not elsewhere classified]

TYPE OF INSTRUMENT	TOTAL		MUTUAL SAVINGS BANKS		SAVINGS AND LOAN ASSOCIATIONS		INSURANCE COMPANIES		PENSION FUNDS <sup>1</sup>		FINANCE COMPANIES		OTHER <sup>2</sup>	
	A	L	A	L	A	L	A	L	A	L	A	L	A	L
Financial assets.....	2,364.9	(X)	172.5	(X)	628.7	(X)	652.1	(X)	486.8	(X)	180.2	(X)	241.6	(X)
Liabilities.....	(X)	2,217.6	(X)	160.1	596.4	(X)	566.7	(X)	488.8	(X)	170.7	(X)	234.9	
Demand deposits and currency.....	26.0	-	3.0	-	3.6	-	5.3	-	6.0	-	4.7	-	3.4	-
Time and savings accounts.....	60.2	728.9	.4	153.5	7.8	511.0	-	-	11.3	-	-	-	40.7	64.4
Fed. funds, security RP's.....	15.3	8.8	4.5	-	10.8	8.8	-	-	-	-	-	-	-	-
Money market fund shares.....	-	74.4	-	-	-	-	-	-	-	-	-	-	-	74.4
Reserves:														
Life insurance.....	-	213.6	-	-	-	-	-	213.6	-	-	-	-	-	-
Pension fund.....	-	653.4	-	-	-	-	-	164.6	-	488.8	-	-	-	-
Corporate equities.....	362.3	55.2	5.4	-	-	-	87.1	-	225.2	-	-	-	44.6	55.2
Credit market instruments.....	1,789.5	220.8	154.7	-	575.3	68.2	516.6	-	240.1	-	175.5	147.3	127.3	7.9
Securities:														
U.S. Treasury.....	93.5	-	5.9	-	5.4	-	19.8	-	41.0	-	-	-	21.4	-
Federal agency.....	114.3	-	17.9	-	41.3	-	18.6	-	30.1	-	-	-	6.4	-
State and local.....	99.2	-	2.8	-	1.2	-	90.2	-	4.0	-	-	-	1.0	-
Corporate and foreign bonds.....	387.0	69.5	21.6	-	-	3.8	205.0	-	151.2	-	-	64.3	9.2	1.4
Mortgages.....	770.8	11.3	99.8	-	502.7	8.7	131.6	-	13.9	-	12.7	-	10.1	2.6
Consumer credit.....	159.8	-	4.1	-	19.8	-	-	-	-	-	91.9	-	44.0	-
Bank loans, n.e.c.....	-	29.3	-	-	-	4.8	-	-	-	-	-	21.7	-	2.8
Open market paper.....	53.1	61.8	2.7	-	4.9	-	10.5	-	-	-	-	61.3	35.0	.5
Other loans.....	111.8	49.0	-	-	-	49.0	41.0	-	-	-	70.8	-	-	-
Security credit.....	23.8	31.3	-	-	-	-	-	15.0	-	-	-	-	23.8	31.3
Trade credit.....	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Taxes payable.....	-	9.8	-	-	-	2.5	-	5.3	-	-	-	-	1.6	-
Miscellaneous.....	72.7	221.3	4.5	6.6	32.2	7.8	28.1	183.2	6.2	-	-	21.8	1.7	1.9

- Represents zero or rounds to zero. X Not applicable. <sup>1</sup> Retirement funds of State and local governments and private pension plans. <sup>2</sup> Credit unions, money market funds, open-end investment companies, real estate investment trusts, and security brokers and dealers.

**NO. 837. FLOW OF FUNDS ACCOUNTS—CREDIT MARKET DEBT OUTSTANDING: 1960 TO 1980**

[In billions of dollars. As of Dec. 31. "N.e.c."=Not elsewhere classified]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
Credit market debt.....	780	1,109	1,752	2,181	2,405	2,619	2,904	3,291	3,768	4,243	4,649
Government.....	308	366	493	543	570	669	754	831	908	954	1,054
Federal.....	236	262	326	349	361	446	516	573	626	664	743
State and local.....	72	103	167	194	209	223	238	259	282	291	311
Nongovernment.....	472	743	1,259	1,638	1,835	1,950	2,150	2,460	2,860	3,289	3,594
Financial <sup>1</sup> .....	30	59	127	194	232	244	268	320	399	488	555
Sponsored credit agencies <sup>2</sup> .....	8	14	40	60	77	80	83	88	111	136	160
Mortgage pools.....	(Z)	1	10	18	24	34	50	70	89	119	143
Commercial banks <sup>3</sup> .....	-	2	5	9	13	13	13	15	22	27	32
Savings and loan associations.....	3	9	14	22	27	24	24	34	49	60	66
Finance companies.....	19	34	54	71	76	77	83	101	120	138	147
Foreign.....	23	38	56	68	81	94	115	129	166	182	210
Private domestic nonfinancial.....	418	646	1,076	1,377	1,521	1,611	1,767	2,012	2,295	2,619	2,829
Corporations <sup>1</sup> .....	154	223	410	522	600	630	679	756	846	981	1,045
Bonds.....	75	98	186	210	231	261	286	311	334	381	389
Mortgages.....	33	54	92	127	141	152	165	185	207	232	251
Bank loans, n.e.c.....	38	61	107	150	180	169	172	183	224	271	300
Finance company loans.....	6	8	15	22	28	30	36	46	54	61	62
Individuals.....	264	423	667	855	922	982	1,088	1,256	1,449	1,658	1,784
By sector:											
Households.....	218	344	527	672	723	772	863	1,003	1,165	1,392	1,438
Farm.....	20	32	51	67	75	84	95	109	128	154	163
Nonfarm noncorporate.....	26	47	89	116	124	126	130	143	157	172	184
By type of instrument:											
Mortgages.....	173	277	427	548	596	641	714	826	951	1,089	1,187
Consumer credit.....	65	103	158	204	214	223	249	289	340	384	388
Policy loans.....	6	8	18	21	24	26	27	29	31	36	42
Bank loans, n.e.c.....	10	17	34	45	47	45	46	51	55	62	66
Other loans.....	10	18	30	37	42	47	53	61	71	87	99

- Represents zero. Z Less than \$500 million. <sup>1</sup> Includes other types, not shown separately. <sup>2</sup> U.S. Government.

<sup>3</sup> Includes bank affiliates.

Source of tables 836 and 837. Board of Governors of the Federal Reserve System, *Flow of Funds Accounts 1949-1978; Assets and Liabilities Outstanding, 1969-1979*; and *Annual Statistical Digest*.

## No. 838. FLOW OF FUNDS ACCOUNTS—CREDIT MARKET SUPPLY OF FUNDS: 1960 TO 1980

[In billions of dollars. As of December 31. Excludes corporate equities. See also *Historical Statistics, Colonial Times to 1970*, series X 64-105]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
<b>Credit market debt claims against nonfinancial sectors.....</b>											
	<b>750</b>	<b>1,050</b>	<b>1,625</b>	<b>1,987</b>	<b>2,173</b>	<b>2,375</b>	<b>2,636</b>	<b>2,972</b>	<b>3,360</b>	<b>3,755</b>	<b>4,093</b>
Public agency and foreign holdings.....	76	114	239	291	342	387	441	526	636	719	814
U.S. Government securities.....	39	56	120	137	149	171	198	238	282	284	306
Residential mortgages <sup>1</sup> .....	10	14	43	66	87	99	110	135	174	222	261
Other loans and securities.....	28	45	76	88	107	117	133	154	180	213	248
Agency debt excluded from total <sup>2</sup> .....	8	15	50	78	101	115	133	159	200	255	302
Private domestic holdings <sup>3</sup> .....	680	950	1,436	1,774	1,931	2,103	2,328	2,604	2,932	3,291	3,581
U.S. Government securities.....	204	219	254	289	311	387	449	492	544	634	738
State and local obligations.....	71	100	162	181	208	224	240	263	291	305	326
Corporate and foreign bonds.....	80	106	198	221	242	276	308	328	351	376	402
Residential mortgages.....	153	249	357	454	480	504	559	643	731	813	873
Other mortgages and loans.....	174	282	472	634	711	730	791	898	1,048	1,205	1,291
Private financial intermediation:											
Claims held by institutions <sup>4</sup> .....	496	752	1,182	1,492	1,617	1,741	1,931	2,188	2,486	2,776	3,037
Commercial banks.....	197	301	498	653	720	749	808	886	1,025	1,144	1,247
Savings institutions.....	110	184	294	377	400	454	524	606	682	738	792
Insurance and pension funds.....	160	219	305	346	376	416	466	535	609	681	757
Sources of funds:											
Domestic deposits <sup>5</sup> .....	280	437	708	907	974	1,066	1,191	1,331	1,474	1,607	1,774
Credit market debt.....	22	44	78	116	131	130	134	161	199	233	253
Insurance and pension reserves.....	133	182	250	282	313	342	374	426	484	532	590
Private domestic nonfinancial investors:											
Credit market claims <sup>4</sup> .....	206	242	331	398	446	491	532	577	646	748	797
U.S. Government securities.....	105	115	129	152	171	195	212	234	267	327	359
State and local obligations.....	36	43	51	60	69	78	81	84	87	79	75
Corporate and foreign bonds.....	10	10	43	50	55	64	69	66	65	76	83
Open market paper.....	3	7	19	30	36	35	37	46	62	73	72
Deposits and currency <sup>4</sup> .....	309	475	762	968	1,042	1,140	1,272	1,421	1,573	1,714	1,890
Time and savings accounts.....	172	310	534	684	759	843	957	1,076	1,193	1,251	1,405
At banks.....	70	140	263	349	393	418	462	514	568	606	681
At savings institutions.....	102	170	271	345	368	425	495	563	625	689	724
Demand deposits.....	108	127	173	199	201	208	216	234	247	257	259
Currency.....	30	37	53	62	68	74	82	90	99	107	117

<sup>1</sup> Includes Federal Home Loan Bank advances to savings and loan associations. <sup>2</sup> Debt of sponsored agencies and mortgage pool securities are excluded from debt of nonfinancial sectors but included in holdings of debt claims below. <sup>3</sup> Claims held by private financial institutions, less sources of funds of credit market debt, plus private domestic nonfinancial investors credit market claims, less FHLB advances. <sup>4</sup> Includes other types, not shown separately. <sup>5</sup> Includes repurchase agreements.

Source: Board of Governors of the Federal Reserve System, *Flow of Funds Accounts, 1949-1978; Assets and Liabilities Outstanding, 1969-1979*; and *Annual Statistical Digest*.

## No. 839. USES AND SOURCES OF FUNDS—SUMMARY: 1960 TO 1980

[In billions of dollars, except percent. See tables 833-838 for related data on financial flows]

USE AND SOURCE	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
Uses, funds raised.....	<b>39.1</b>	<b>66.8</b>	<b>95.1</b>	<b>185.9</b>	<b>187.3</b>	<b>200.1</b>	<b>261.9</b>	<b>338.9</b>	<b>391.6</b>	<b>379.7</b>	<b>355.4</b>
Investment funds.....	28.1	45.6	69.6	120.3	114.1	119.3	143.9	192.6	219.7	228.7	210.0
Short-term funds.....	13.1	23.1	18.6	66.0	63.0	2.7	58.6	94.8	125.1	121.0	71.1
U.S. securities, privately held.....	-2.2	-1.9	6.9	-4	10.2	78.1	59.4	51.5	46.8	29.9	74.3
Less: Financial intermediaries, funds raised.....	3.3	7.9	12.5	31.8	29.8	5.3	15.2	28.5	47.3	50.7	37.2
Sources, gross funds supplied.....	<b>42.4</b>	<b>74.7</b>	<b>107.7</b>	<b>217.7</b>	<b>211.1</b>	<b>205.4</b>	<b>277.1</b>	<b>367.4</b>	<b>438.9</b>	<b>430.3</b>	<b>392.6</b>
Commercial banks.....	9.5	28.5	37.1	81.3	84.6	31.5	66.3	89.9	125.9	120.3	96.5
Percent of funds supplied.....	22.4	38.2	34.4	37.3	30.6	15.3	23.9	24.5	28.7	28.0	24.6
Insurance companies.....	6.5	9.7	13.0	21.7	19.8	25.0	39.2	48.6	53.0	50.9	51.3
Private nonresidential pension funds.....	3.7	5.8	7.7	9.2	7.9	14.1	12.5	16.5	16.0	22.8	25.3
State and local government retirement funds.....	2.1	3.3	6.1	6.7	8.0	11.5	12.4	13.9	14.9	19.6	23.9
Savings and loan associations.....	7.3	9.6	12.7	26.5	19.6	36.6	51.9	64.9	57.1	49.7	43.1
Mutual savings banks.....	1.5	4.0	4.1	4.8	3.4	10.8	12.5	11.7	7.9	3.8	5.5
Credit unions.....	.6	1.1	1.6	3.6	3.0	5.0	6.6	8.2	8.3	2.4	3.5
Investment companies.....	1.1	1.8	1.9	1.4	2.0	3.1	1.4	2.9	5.2	22.1	24.4
Other financial intermediaries.....	3.2	5.0	3.9	16.3	4.3	-1.6	7.2	16.8	19.5	21.4	6.7
Business.....	-4.5	1.5	4.1	-7	13.2	13.2	16.3	13.0	11.3	16.3	13.7
Government.....	2.3	3.8	10.7	9.2	16.4	21.4	14.9	13.0	32.0	32.1	36.3
Foreign investors.....	1.8	-2	10.5	4.0	12.2	10.4	17.8	42.1	40.1	-4.9	20.8
Individuals and others.....	7.3	6	-5.7	33.7	36.9	24.3	17.9	25.9	47.7	73.8	41.6
Total net sources.....	<b>39.1</b>	<b>66.8</b>	<b>95.1</b>	<b>185.9</b>	<b>187.3</b>	<b>200.1</b>	<b>261.9</b>	<b>338.9</b>	<b>391.6</b>	<b>379.7</b>	<b>355.4</b>

Source: Donald Woolley and Beverly Lowen, *Credit and Capital Markets, 1981*, Bankers Trust Company, New York, N.Y.

## NO. 840. FEDERAL RESERVE BANKS—ASSETS, LIABILITIES, AND CAPITAL ACCOUNTS: 1960 TO 1980

[In billions of dollars. As of December 31. See also *Historical Statistics, Colonial Times to 1970*, series X 796-805]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
<b>Assets</b>	<b>53.0</b>	<b>62.7</b>	<b>85.9</b>	<b>103.1</b>	<b>110.8</b>	<b>120.4</b>	<b>129.3</b>	<b>137.8</b>	<b>151.1</b>	<b>160.8</b>	<b>168.5</b>
U.S. Government securities <sup>1</sup>	27.4	40.8	82.1	80.5	85.7	94.1	104.1	111.3	118.6	126.2	130.6
Gold certificate reserves	17.5	13.4	10.5	11.5	11.7	11.6	11.6	11.7	11.7	11.1	11.2
Special drawing rights <sup>2</sup>	(X)	(X)	.4	.4	.4	.5	1.2	1.3	1.3	1.8	2.5
Cash and collection items	7.7	7.0	11.4	8.2	8.6	9.2	8.2	9.9	13.2	14.0	12.9
Loans and acceptances	.1	.3	.4	1.3	1.3	1.4	1.0	1.2	1.8	2.1	2.6
Other assets	.3	1.1	1.1	1.2	3.2	3.3	3.2	2.4	4.5	5.6	8.7
<b>Liabilities and capital accounts</b>	<b>53.0</b>	<b>62.7</b>	<b>85.9</b>	<b>103.1</b>	<b>110.8</b>	<b>120.4</b>	<b>129.3</b>	<b>137.8</b>	<b>151.1</b>	<b>160.8</b>	<b>168.5</b>
Federal Reserve notes	28.4	37.1	50.3	64.3	70.9	77.2	88.7	93.2	103.3	113.3	124.2
Deposits	18.3	19.6	26.7	31.3	30.6	34.8	37.3	35.6	37.0	35.7	31.5
Deferred availability cash items	4.9	4.7	6.9	4.9	6.3	5.5	5.2	5.8	6.5	6.8	8.1
Other, and accrued dividends	(Z)	.2	.6	1.0	1.1	1.1	1.1	1.2	2.1	2.7	2.3
Capital accounts	1.2	1.1	1.4	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4

X Not applicable. Z Less than \$50 million. <sup>1</sup> Beginning 1970, includes securities loaned, fully secured by U.S. Government securities pledged with Federal Reserve banks. <sup>2</sup> Excludes securities sold and scheduled to be bought back under matched sale-purchase transactions.

## NO. 841. FEDERAL RESERVE MEMBER BANKS—REVENUE AND EXPENSES: 1960 TO 1980

[Includes one member bank in the Virgin Islands. Beginning 1970, data not comparable with prior years]

ITEM	Unit	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
Member banks												
Number		6,174	6,221	5,767	5,735	5,780	5,787	5,758	5,688	5,564	5,425	5,422
Current revenue	Bil. dol.	8.9	13.8	27.9	41.7	53.8	51.4	63.6	70.5	89.1	118.9	150.6
Expenses	Bil. dol.	5.7	10.2	22.2	35.0	46.8	44.4	55.9	61.7	77.8	105.8	136.5
Net current earnings	Bil. dol.	3.3	3.6	5.7	6.7	7.0	7.0	7.7	8.8	11.3	13.1	14.2
Net income	Bil. dol.	1.7	2.1	3.8	5.0	5.4	5.5	5.9	6.6	7.9	9.2	9.9
Cash dividends declared	Bil. dol.	.7	1.1	1.8	2.0	2.3	2.5	2.5	2.6	2.9	3.6	3.9
Capital accounts <sup>1</sup>	Bil. dol.	16.7	24.1	33.1	43.0	46.6	50.2	53.0	59.2	64.4	70.8	77.3
Ratios to avg. capital accounts:												
Net current earnings	Percent	19.6	15.1	17.3	15.5	15.1	13.9	14.5	14.9	17.5	18.5	18.3
Net income	Percent	10.1	8.7	11.5	11.7	10.7	11.0	11.1	11.1	12.3	13.0	12.8
Cash dividends declared	Percent	4.4	4.4	5.3	4.7	4.9	4.9	4.7	4.4	4.5	4.9	5.0

<sup>1</sup> Averages of amounts reported for varying call dates; for details, see source.Source of tables 840 and 841: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## NO. 842. FEDERAL RESERVE SYSTEM—MEMBER BANK RESERVES: 1965 TO 1980

[In billions of dollars. As of December; averages of daily figures]

ITEM	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980
Factors supplying reserve funds:											
Federal Reserve bank credit <sup>1</sup> outstanding											
U.S. Government securities <sup>2</sup>	43.9	66.7	76.9	85.6	94.0	99.7	107.6	116.4	129.3	140.0	143.3
Floating	40.9	61.7	71.1	79.7	86.7	92.1	100.3	107.9	117.3	126.3	127.9
Other Federal Reserve assets	2.3	3.6	3.5	3.4	2.7	3.0	3.6	5.3	7.4	6.5	5.8
Gold stock	.5	1.4	2.2	2.4	3.8	3.7	3.2	3.1	4.6	7.2	9.6
Special drawing rights accounts	13.8	11.1	10.4	11.6	11.8	11.6	11.6	11.7	11.6	11.7	11.2
Treasury currency outstanding	5.6	7.1	8.3	8.7	9.2	10.1	10.9	11.4	11.8	12.9	13.4
Factors absorbing reserve funds:											
Currency in circulation	42.2	57.0	66.1	71.6	79.0	85.8	93.7	102.9	113.4	123.8	135.7
Treasury cash holdings	.8	.4	.4	.3	.2	.5	.5	.4	.3	.4	.4
Deposits with Federal Reserve banks <sup>3</sup>	1.1	1.7	2.4	3.0	3.0	5.1	7.4	8.6	5.0	3.6	3.5
Other Federal Reserve accounts	.4	2.3	2.4	2.9	3.3	3.2	3.2	3.7	4.3	5.3	4.9
Member bank reserves	22.7	29.3	31.4	35.1	36.9	43.5	43.5	43.6	41.6	44.1	40.1
With Federal Reserve banks <sup>4</sup>	18.7	23.9	24.8	28.4	29.8	27.2	26.4	27.1	31.2	32.6	26.7
Currency and coin	4.0	5.3	6.1	6.6	7.2	7.8	8.5	9.4	10.3	11.3	13.4
Required reserves	22.3	29.0	31.1	34.8	36.6	34.7	35.0	36.3	41.4	43.6	40.1
Excess reserves	.5	.3	.4	.3	.3	.2	.2	.2	.1	.5	(2)
Free reserves <sup>5</sup>	(-Z)	(-Z)	-.8	-1.0	-4	.1	.1	-.4	-.7	-1.0	-1.6

X Not applicable. Z Less than \$50 million. <sup>1</sup> Includes industrial loans and acceptances, when held. <sup>2</sup> Includes Federal agency obligations. <sup>3</sup> Other than member bank reserves. <sup>4</sup> Includes \$428 million for 1972 and \$81 million for 1973 of reserve deficiencies for which Federal Reserve banks are allowed to waive penalties for transition period. Transition period ended after second quarter 1974. Beginning with week ending Nov. 19, 1975, adjusted to include waivers of penalties for reserve deficiencies. <sup>5</sup> Beginning 1979, includes reserves of all depository institutions. <sup>6</sup> Excess less borrowings.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly, and *Annual Statistical Digest*.

## Banking, Finance, and Insurance

## No. 843. BANKING OFFICES, BY DEPOSIT INSURANCE STATUS: 1960 TO 1979

[As of December 31. Includes Puerto Rico and outlying areas. See also *Historical Statistics, Colonial Times to 1970*, series X 716-724]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
All banking offices.....	25,105	30,958	37,166	42,886	45,308	47,239	48,653	50,695	52,608	54,928	57,232
Commercial bank, total.....	24,103	29,736	35,585	40,912	43,186	44,917	46,100	47,914	49,602	51,590	53,649
Member, Fed. Reserve System.....	14,303	18,539	21,989	24,756	25,779	26,526	27,154	27,904	28,456	29,163	29,985
National banks.....	10,038	13,801	17,191	19,627	20,498	21,073	21,458	22,294	22,731	23,307	24,217
State banks.....	4,265	4,738	4,788	5,129	5,281	5,453	5,695	5,810	5,725	5,856	5,768
Nonmember banks.....	9,800	11,197	13,596	16,156	17,407	18,391	18,946	20,010	21,148	22,427	23,664
Insured.....	9,382	10,854	13,332	15,883	17,080	18,043	18,578	19,619	20,730	21,993	23,186
Noninsured.....	418	343	264	293	327	348	368	381	416	434	478
Mutual savings bank, total.....	1,002	1,222	1,581	1,974	2,122	2,322	2,553	2,781	3,006	3,338	3,583
Insured.....	706	913	1,223	1,563	1,707	1,897	2,125	2,302	2,517	2,840	3,066
Noninsured.....	296	309	358	411	415	425	428	479	489	498	517

## NO. 844. CHANGES IN NUMBER OF OPERATING BANKING OFFICES: 1960 TO 1980

[As of December 31. Includes Puerto Rico and outlying areas]

TYPE OF CHANGE	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
Banking offices.....	25,105	30,958	37,166	42,886	45,308	47,239	48,653	50,695	52,608	54,928	57,232
Number of banks.....	13,999	14,324	14,199	14,676	14,961	15,130	15,170	15,207	15,206	15,201	15,330
Number of branches.....	11,106	16,634	22,987	28,210	30,347	32,109	33,483	35,488	37,402	39,727	41,902
Net change during year.....	883	1,231	1,584	2,224	2,422	1,931	1,414	2,041	1,909	2,320	2,306
Offices opened.....	1,060	1,454	1,864	2,424	2,730	2,224	1,819	2,524	2,426	2,895	2,800
Banks.....	132	202	186	345	408	277	193	206	184	239	271
Branches.....	928	1,252	1,678	2,079	2,322	1,947	1,826	2,318	2,242	2,656	2,529
Offices closed.....	197	223	280	200	308	293	405	483	517	575	494
Banks.....	137	159	185	105	123	108	153	169	185	244	142
Branches.....	60	64	115	95	185	185	252	314	332	331	352

Source of tables 843 and 844: U.S. Federal Deposit Insurance Corporation, *Annual Report*.

## NO. 845. CHANGES IN COMMERCIAL BANKING STRUCTURE: 1953 TO 1980

[Number of banks, beginning of period, may not correspond to number of banks, end of previous period due to change between types of banking permitted in a State; see footnotes. Minus sign (-) denotes decrease]

CHANGE	1953-1960	1967 and 1968	1969 and 1970	1971 and 1972	1973 and 1974	1975 and 1976	1977 and 1978	1979 and 1980
All commercial banks:								
Number of banks, beginning of period.....	14,074	13,766	13,678	13,686	13,927	14,458	14,671	14,711
New banks organized.....	5,137	191	319	472	752	464	380	500
Mergers and absorptions.....	-4,126	-266	-297	-218	-214	-234	-331	-307
Voluntary liquidations, suspensions.....	-250	-19	-14	-13	-7	-17	-9	-69
Number of banks, end of period.....	14,835	13,678	13,686	13,927	14,458	14,671	14,711	14,835
Net change in banks.....	+761	-88	8	241	531	213	40	124
Number of branches, end of period.....	38,501	19,467	21,646	24,943	28,435	34,582	34,578	38,501
Net change in branches.....	32,975	2,106	2,631	2,968	3,821	3,460	3,456	3,919

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly; *Annual Statistical Digest*; and unpublished data.

## NO. 846. BANKS CLOSED DUE TO FINANCIAL DIFFICULTIES: 1941 TO 1980

[Prior to 1959, excludes Alaska and Hawaii. Banks are closed either permanently or temporarily by order of supervisory authorities or by directors of banks. See *Historical Statistics, Colonial Times to 1970*, series X 741, 748, 756, and 761]

ITEM	Unit	1941-1950	1951-1960	1961-1970	1971-1974	1975	1976	1977	1978	1979	1980
Total banks.....	Number.....	73	43	63	19	14	17	6	7	10	10
Insured.....	Number.....	61	28	50	17	13	16	6	7	10	10
Noninsured .....	Number .....	12	15	13	2	1	1	-	-	-	-
Deposits.....	\$1,000.....	102,618	114,972	342,360	2,779,064	340,574	865,859	205,208	854,154	110,696	216,300
Insured.....	\$1,000.....	99,276	104,610	334,570	2,689,760	339,574	864,799	205,208	854,154	110,696	216,300
Noninsured .....	\$1,000.....	3,342	10,362	7,790	79,304	1,000	860	-	-	-	-

- Represents zero.

Source: Federal Deposit Insurance Corporation, *Annual Report*.

## NO. 847. COMMERCIAL BANKS—ASSETS AND LIABILITIES: 1965 TO 1980

[In billions of dollars, except number of banks. As of Dec. 31. Includes noninsured nondeposit trust companies. Includes outlying areas. Includes American branches of foreign banks (tabulated as banks) licensed to do a deposit business. See *Historical Statistics, Colonial Times to 1970*, series X 588-609, for related data.]

ITEM	1965	1970	1974	1975	1976	1977	1978	1979	1980
Number of banks.....	13,818	13,705	14,488	14,657	14,698	14,738	14,741	14,738	14,870
Assets.....	382.9	581.5	927.5	974.7	1,040.1	1,176.6	1,329.0	1,437.7	1,543.5
Securities, total.....	104.6	148.5	195.9	230.8	252.3	261.0	272.0	287.8	326.0
Investment securities <sup>1,2</sup> .....	104.6	142.7	187.9	225.5	243.7	252.9	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
U.S. Treasury.....	59.7	59.3	52.3	81.6	98.0	97.0	90.6	88.8	104.5
Obligations of States and subdivisions.....	38.7	67.9	97.6	101.6	103.3	113.7	124.6	133.3	148.5
Federal funds sold and sec. purchased <sup>4</sup> .....	2.1	16.3	40.1	39.3	48.5	54.2	55.0	63.5	71.4
Loans, gross.....	204.7	300.4	514.2	512.5	552.1	632.3	737.6	813.8	841.8
Commercial and industrial loans.....	71.9	113.4	188.6	181.0	185.1	207.3	236.9	265.8	283.9
Real estate loans.....	49.7	73.3	132.1	136.5	151.2	179.0	214.0	245.2	263.6
Construction and land development.....	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	17.3	21.4	27.3	32.9	36.8
Secured by farmland.....	2.9	4.4	6.0	6.4	6.7	7.8	8.5	8.6	8.7
Secured by residential properties.....	32.4	45.6	82.4	83.1	85.9	101.9	124.4	143.9	154.1
Secured by other properties.....	14.4	23.3	43.7	46.9	41.3	47.9	53.8	59.7	63.9
Loans to financial institutions <sup>6</sup> .....	15.5	16.6	47.7	42.5	42.7	43.9	55.5	48.9	46.7
Securities loans (dealers and other).....	8.5	9.8	9.2	11.1	15.4	17.4	14.9	13.8	12.5
Loans to farmers (excl. real estate).....	8.2	11.2	18.2	20.2	23.2	25.7	28.3	31.1	31.6
Other loans to individuals.....	45.7	66.3	104.0	107.6	119.3	141.5	167.9	187.9	181.7
All other loans (incl. overdrafts).....	5.9	7.7	14.3	13.6	15.1	17.5	20.1	21.3	22.1
Net loans.....	(X)	(X)	(X)	(X)	533.2	610.5	711.9	784.6	812.2
Cash, balances with banks, etc.....	61.0	94.0	128.8	134.5	136.8	170.1	188.5	198.9	202.3
Other.....	10.4	22.4	48.4	57.7	68.4	80.9	101.4	102.4	131.7
Liabilities and equity capital.....	1,382.9	1,581.5	1,927.5	1,974.7	1,040.1	1,176.6	1,329.0	1,437.7	1,543.5
Deposits.....	333.8	485.5	753.6	792.9	845.1	947.1	1,043.3	1,108.7	1,194.0
Demand.....	185.5	249.0	317.5	325.5	338.7	384.9	408.5	435.0	433.1
Time and savings.....	148.5	236.5	436.1	467.4	506.4	562.2	634.7	673.7	760.9
Business and personal.....	276.8	397.3	609.9	652.9	704.8	786.3	875.0	940.8	1,029.2
Government.....	32.4	49.7	74.6	71.1	72.3	85.1	88.8	87.2	84.8
Domestic interbank.....	17.5	29.2	46.0	45.3	45.6	60.4	67.1	69.3	79.6
Foreign government and bank.....	7.0	9.3	24.2	23.5	22.4	13.3	12.3	11.1	11.1
Miscellaneous liabilities.....	14.7	46.5	101.2	103.3	116.7	149.4	191.2	225.2	235.8
Subordinated notes and debentures.....	1.7	2.2	4.4	4.6	5.3	6.8	5.9	6.0	6.3
Equity capital.....	28.7	41.0	59.6	64.9	73.1	80.3	88.6	97.8	108.1
Stock.....	8.7	11.4	14.9	15.7	16.4	17.4	18.5	20.6	22.0
Surplus.....	13.6	18.2	25.5	26.9	29.3	31.7	33.7	36.5	37.9
Undivided profits and reserve.....	6.5	11.4	19.1	22.3	27.4	31.2	36.4	41.8	48.2

X Not applicable. <sup>1</sup> Includes other categories not shown separately. <sup>2</sup> For 1965, securities reported on net (after deduction of reserves) basis. <sup>3</sup> Investment securities no longer reported as a separate category. <sup>4</sup> Under agreements to resell. <sup>5</sup> Prior to 1976, included in other categories of real estate loans. <sup>6</sup> Includes loans to foreign banks.

Source: U.S. Federal Deposit Insurance Corporation, *Assets and Liabilities: Commercial and Mutual Savings Banks*, semiannual, and Annual Report.

## NO. 848. COMMERCIAL BANKS—SUMMARY, BY CLASS OF BANK: 1970 TO 1980

[As of Dec. 31. Member, nonmember refers to Federal Reserve System. See *Historical Statistics, Colonial Times to 1970*, series X 717-721, for related data on banking offices]

ITEM	Total	National	State member	NONMEMBER		ITEM	Total	National	State member	NONMEMBER	
				In-sured	Nonin-sured					In-sured	Nonin-sured
Number of banks:											
1970.....	13,687	4,621	1,147	7,735	184	Assets (bil. dol.):	577.0	340.8	125.5	106.5	4.4
1975.....	14,632	4,744	1,046	8,586	257	1970.....	965.2	563.3	180.5	210.9	20.5
1978.....	14,712	4,564	1,000	8,815	333	1975.....	1,317.2	721.8	235.5	306.7	53.2
1979.....	14,708	4,448	977	8,926	357	1978.....	1,126.8	792.3	256.5	346.6	81.4
1980.....	14,836	4,425	997	9,000	414	1980 <sup>1</sup> .....	1,530.0	869.6	267.2	389.9	3.3
Banking offices:						Demand deposits (bil. dol.):					
1970.....	35,330	17,157	4,802	13,139	232	1970.....	247.9	145.1	58.5	42.5	1.7
1975.....	44,599	21,022	5,451	17,819	307	1975.....	323.6	183.9	67.7	68.1	3.9
1978.....	49,102	22,538	5,711	20,469	384	1978.....	406.4	220.6	85.2	92.6	8.0
1979.....	51,111	23,122	5,846	21,735	408	1979.....	433.3	234.9	94.8	99.7	3.8
1980.....	53,189	24,045	5,756	22,923	465	1980 <sup>1</sup> .....	431.0	237.7	90.0	102.6	.7
Gross loans (bil. dol.):						Time and savings deposits (bil. dol.):					
1970.....	903.0	178.0	64.7	52.6	7.6	1970.....	238.9	138.5	42.9	51.5	.8
1975.....	546.5	315.7	100.8	118.6	11.3	1975.....	462.9	263.7	75.7	115.9	7.7
1978.....	731.7	404.3	118.4	180.5	28.4	1978.....	628.7	340.4	93.0	177.4	17.8
1979.....	808.0	454.2	132.2	204.3	17.2	1979.....	666.3	360.1	92.2	204.2	10.0
1980 <sup>1</sup> .....	835.6	481.1	135.3	218.0	1.2	1980 <sup>1</sup> .....	752.4	414.2	101.1	236.5	.7

<sup>1</sup> Excludes branches of foreign banks.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## Banking, Finance, and Insurance

## NO. 849. COMMERCIAL BANKS—ASSETS AND LIABILITIES, STATES AND OTHER AREAS: 1980

[In millions of dollars, except number of banks. As of December 31]

STATE OR OTHER AREA	Number of banks	Total assets	SELECTED ASSETS				SELECTED LIABILITIES				
			Total securities	Gross loans and Federal funds sold	Gross loans			Equity capital	Deposits		
					Total	Commercial and industrial	Real estate		Total	Demand	Time and savings
Total	14,870	1,543,545	326,005	913,143	841,769	283,266	263,557	108,108	1,193,960	433,086	760,874
U.S.	14,836	1,530,039	323,239	906,683	835,611	281,050	261,907	107,640	1,183,751	431,041	752,710
Ala.....	318	16,839	5,011	9,684	8,930	2,427	2,865	1,394	14,060	4,699	9,361
Alaska.....	12	2,251	652	1,205	1,048	372	411	196	1,757	781	976
Ariz.....	35	13,321	2,464	8,484	8,116	2,181	2,843	720	11,334	3,843	7,491
Ark.....	262	11,091	3,149	6,602	5,976	1,754	2,103	895	9,498	2,943	6,555
Calif.....	297	175,826	20,502	117,876	113,375	33,885	46,506	10,310	137,333	44,979	92,354
Colo.....	442	16,611	2,943	10,391	9,534	3,045	2,467	1,238	13,682	5,871	7,811
Conn.....	64	13,586	2,538	8,587	7,963	2,498	3,050	835	11,214	4,660	6,554
Del.....	20	3,686	1,085	2,126	1,875	335	785	249	2,903	1,044	1,859
D.C.....	18	7,272	1,629	4,179	4,008	1,192	1,567	544	5,576	2,782	2,783
Fla.....	565	47,708	14,117	25,069	22,443	4,892	8,930	3,458	40,228	16,903	23,325
Ga.....	435	22,862	4,995	13,727	12,093	3,347	3,433	1,703	18,555	8,499	10,056
Hawaii.....	12	5,165	1,008	3,380	3,302	832	1,450	335	4,502	1,448	3,055
Idaho.....	26	5,106	1,132	3,105	2,871	863	841	332	4,262	1,288	2,974
Ill.....	1,292	111,624	25,329	69,477	64,825	26,952	17,055	7,956	81,097	25,638	55,489
Ind.....	407	32,280	9,236	18,553	16,990	3,715	7,356	2,379	26,683	7,531	19,152
Iowa.....	657	21,734	6,006	13,123	11,235	2,328	3,244	1,700	18,475	5,000	13,476
Kan.....	620	16,599	5,010	9,631	8,299	2,184	1,813	1,348	14,079	4,504	9,575
Ky.....	345	19,371	5,041	11,838	10,226	2,487	3,772	1,548	16,030	5,612	10,418
La.....	269	24,893	6,937	14,577	12,875	4,402	4,150	1,865	21,144	7,845	13,299
Maine.....	41	3,465	923	2,089	1,951	559	816	240	2,895	784	2,112
Md.....	102	16,035	3,121	10,318	9,678	2,075	4,218	1,163	13,271	4,860	8,411
Mass.....	144	29,483	6,713	15,679	14,520	6,297	3,890	1,848	21,627	8,754	12,873
Mich.....	376	51,662	12,605	30,674	29,328	7,915	12,617	3,475	41,715	10,663	31,052
Minn.....	764	30,726	7,642	18,213	16,546	5,287	4,947	2,088	24,408	7,261	17,148
Miss.....	178	11,466	3,371	6,715	6,140	1,407	2,148	856	9,793	3,084	6,709
Mo.....	731	34,515	8,797	20,124	16,853	4,979	5,763	2,483	26,999	9,923	17,075
Mont.....	166	5,319	1,380	3,303	3,012	824	831	403	4,622	1,311	3,311
Nebr.....	464	11,509	2,703	7,190	6,061	1,318	791	928	9,583	3,296	6,286
Nev.....	11	3,761	845	2,267	2,238	539	1,078	291	3,199	1,340	1,859
N.H.....	76	3,298	657	2,251	2,107	511	1,021	244	2,890	696	2,194
N.J.....	169	35,800	9,376	21,074	19,492	5,239	8,675	2,335	30,023	10,173	19,850
N. Mex.....	90	6,107	1,441	3,826	3,250	1,096	886	421	5,273	1,798	3,475
N.Y. <sup>1</sup> .....	317	269,036	37,457	141,217	131,010	61,790	20,696	19,866	173,556	90,516	83,040
N.C.....	80	23,321	5,411	13,211	12,273	4,228	2,966	1,593	18,095	6,622	11,473
N. Dak.....	178	5,333	1,506	3,262	2,880	747	882	422	4,523	1,221	3,302
Ohio.....	385	55,036	15,075	31,304	28,899	7,902	10,448	4,362	42,416	12,920	29,496
Oklahoma.....	502	22,833	5,877	13,618	11,694	4,177	2,941	1,651	19,292	7,250	12,043
Oreg.....	90	12,847	2,359	8,075	7,698	2,803	2,572	822	10,464	3,225	7,239
Pa.....	367	81,437	20,048	49,292	45,883	14,628	16,462	5,573	62,898	18,280	44,618
R.I.....	17	6,638	1,407	3,984	3,885	1,268	1,778	371	5,136	1,169	3,968
S.C.....	85	7,634	2,219	4,319	3,918	1,025	992	611	6,325	3,030	3,295
S. Dak.....	153	5,085	1,357	3,172	2,958	668	652	382	4,535	1,055	3,480
Tenn.....	353	23,712	6,070	13,948	12,855	3,586	4,309	1,705	19,798	6,057	13,741
Tex.....	1,472	110,762	24,984	65,785	58,840	25,380	13,063	7,741	89,455	36,180	53,275
Utah.....	78	6,693	1,219	4,141	3,829	1,186	1,474	447	5,635	1,966	3,669
Vt.....	29	2,401	493	1,636	1,586	321	874	153	2,166	462	1,704
Va.....	230	24,117	5,525	15,597	14,496	3,254	5,769	1,748	20,142	6,108	14,034
Wash.....	111	21,922	2,850	13,932	13,308	5,032	3,661	1,308	17,302	5,835	11,467
W. Va.....	237	10,315	3,391	6,189	5,407	901	2,486	884	8,620	2,195	6,425
Wis.....	641	26,495	6,733	16,567	15,234	3,811	7,025	1,943	21,645	6,061	15,584
Wyo.....	103	3,450	898	2,098	1,801	606	535	281	3,035	1,073	1,962
P.R. <sup>2</sup> .....	24	12,034	2,717	5,858	5,555	2,067	1,367	460	8,849	1,799	7,050
Guam <sup>3</sup> and Samoa.....	4	674	19	252	252	63	80	7	613	115	498
V.I. <sup>4</sup> .....	6	798	30	352	352	86	203	-	747	131	615

<sup>1</sup> Represents zero. <sup>2</sup> Includes data for 17 insured branches operated by 3 State nonmember banks in Puerto Rico.<sup>3</sup> Includes data for 25 insured branches operated by 2 national banks in New York. <sup>4</sup> Consists of data for 15 insured branches located in Guam operated by 2 State nonmember banks in Hawaii, 1 State nonmember bank in Guam, 3 State nonmember banks and a national bank in California, and 2 national banks in New York.<sup>4</sup> Includes data for 23 insured branches operated by 2 national banks in New York, a national bank in California, and a national bank in Pennsylvania.Source: U.S. Federal Deposit Insurance Corporation, *Assets and Liabilities: Commercial and Mutual Savings Banks*, semiannual.

# Commercial Banks—Foreign Ownership

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## NO. 850. LARGEST COMMERCIAL BANKS—FINANCIAL DATA, BY RANK OF ASSETS: 1960 TO 1980

[In billions of dollars, except percent. As of December 31. See also table 841]

ASSET GROUP	ASSETS					DEPOSITS						
	1960	1965	1970	1975	1979	1980	1960	1965	1970	1975	1979	1980
Total of 50 largest.....	98.6	146.7	220.0	348.0	517.1	569.7	85.5	124.6	173.9	265.9	347.0	371.3
Percent of all commercial banks.....	39.1	39.4	34.3	35.7	36.0	37.2	38.5	38.4	32.2	33.5	31.3	31.4
Lowest ten.....	6.6	9.2	16.4	23.0	34.5	40.1	5.9	8.1	13.5	17.8	24.7	24.1
Second ten.....	8.1	12.1	19.5	28.7	43.8	47.0	7.2	10.6	16.4	22.1	31.7	28.6
Third ten.....	10.4	14.8	24.2	34.1	54.8	58.9	9.3	12.9	20.0	25.8	38.1	36.3
Fourth ten.....	19.3	28.9	42.4	67.2	102.7	110.4	16.8	24.8	33.6	51.7	68.9	76.6
Highest ten.....	54.3	81.7	117.4	195.0	281.1	313.3	46.4	68.1	90.5	148.5	183.5	205.6
Percent of total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Lowest ten.....	6.6	6.3	7.4	6.6	6.7	7.0	6.8	6.5	7.7	6.7	7.1	6.5
Second ten.....	8.2	8.2	8.9	8.2	8.5	8.3	8.4	9.4	8.3	9.2	7.7	7.7
Third ten.....	10.6	10.1	11.0	9.8	10.6	10.3	10.9	10.4	11.5	9.7	11.0	9.8
Fourth ten.....	19.5	19.7	19.3	19.3	19.8	19.4	19.6	19.9	19.3	19.4	19.8	20.6
Highest ten.....	55.0	55.7	53.4	56.1	54.4	54.9	54.3	54.7	52.0	55.9	52.9	55.4

Source: U.S. Federal Deposit Insurance Corporation, unpublished data.

## NO. 851. INSURED COMMERCIAL BANKS—SELECTED MEASURES OF FINANCIAL CONDITION: 1975 TO 1980

[As of December 31]

ITEM	Unit	1975	1976	1977	1978	1979	1980
Number of banks.....	Number.....	14,467	14,494	14,499	14,372	14,364	14,435
Equity and debt capital.....	Mil. dol.....	70,336	77,370	85,066	93,192	103,306	114,147
Equity capital to total assets.....	Percent.....	6.1	6.1	5.9	5.8	5.7	5.8
Equity capital to total deposits.....	Percent.....	8.5	7.3	7.1	7.1	7.1	7.3
Debt capital to total capital.....	Percent.....	6.3	6.7	6.9	6.6	6.1	5.7
Total capital to total assets.....	Percent.....	6.5	6.6	6.4	6.2	6.1	6.2
Total capital to total liabilities.....	Percent.....	6.9	7.0	6.8	6.6	6.5	6.6
Total capital to risk assets.....	Percent.....	9.0	9.1	8.8	8.5	8.3	8.4
Total loans, excluding Federal funds.....	Mil. dol.....	579,357	626,892	722,387	828,469	931,198	1,002,489
Total loans to deposits.....	Percent.....	63.4	63.2	64.7	67.4	68.4	67.7
Net loan losses to average total loans.....	Percent.....	.61	.64	.47	.37	.34	.38
Aggregate net operating income <sup>1</sup> .....	Mil. dol.....	7,146	7,615	8,726	10,899	13,126	14,484
Aggregate net income to average equity capital.....	Percent.....	11.3	11.0	11.5	13.1	14.3	14.1
Aggregate net income to total assets.....	Percent.....	.72	.73	.75	.82	.88	.78

<sup>1</sup> After taxes and before security transactions.

Source: U.S. Federal Deposit Insurance Corporation, *The Condition of the Financial System*, May 1980, and unpublished data.

## NO. 852. U.S. BANKING OFFICES OF FOREIGN BANKS—SELECTED ASSETS AND LIABILITIES: 1973 TO 1981

[As of December, except as indicated. Offices include agencies, branches, subsidiary commercial banks and New York investment companies, and exclude Puerto Rican banks]

ITEM	Unit	1973	1974	1975	1976	1977	1978	1979	1980	1981, Mar.
Assets, total.....	Bil. dol.....	32.3	46.1	52.4	61.3	76.8	109.1	149.6	200.6	205.3
Standard banking assets.....	Bil. dol.....	24.8	36.9	42.1	48.5	59.0	87.6	122.5	163.8	166.4
Loans, total.....	Bil. dol.....	17.6	27.0	29.9	35.4	41.5	65.3	91.9	121.4	123.2
Business loans.....	Bil. dol.....	12.8	18.8	19.9	19.7	22.0	32.7	48.2	59.6	62.1
Deposits, total.....	Bil. dol.....	11.4	17.0	22.6	26.1	33.8	46.3	62.8	80.4	80.6
SHARE <sup>1</sup>										
Assets, total.....	Percent.....	3.8	4.9	5.3	5.8	6.4	8.0	9.9	11.9	12.1
Standard banking assets.....	Percent.....	3.2	4.3	4.7	5.1	5.6	7.3	9.1	11.0	11.1
Loans, total.....	Percent.....	3.7	5.1	5.7	6.4	6.6	8.8	10.9	13.4	13.6
Business loans.....	Percent.....	7.6	9.5	10.4	10.2	10.3	13.1	16.3	18.2	18.9
Deposits, total.....	Percent.....	1.7	2.3	2.9	3.1	3.6	4.5	5.6	6.6	6.6

<sup>1</sup> Percent of "domestically owned" commercial banks plus U.S. offices of foreign banks.

Source: Board of Governors of the Federal Reserve System, unpublished data.

**NO. 853. BANK HOLDING COMPANIES—OFFICES, ASSETS, DEPOSITS: 1960 TO 1980**

[As of Dec. 31. A "bank holding company" means any company which has control over any bank or over any company that is, or becomes, a bank holding company by virtue of the Bank Holding Company Act and its amendments. Represents domestic data only.]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
Number of companies.....	47	53	121	1,677	1,752	1,821	1,912	2,027	2,222	2,478	3,056
Banking offices.....	1,463	1,954	4,155	18,471	20,593	22,056	22,890	24,243	25,614	27,099	29,924
Banks.....	426	468	895	3,097	3,462	3,674	3,791	3,903	4,101	4,280	4,954
Branches.....	1,037	1,486	3,280	15,574	17,131	18,382	19,199	20,340	21,513	22,819	24,970
Assets (bil. dol.).....	20.5	31.2	92.9	563.0	640.1	661.3	700.0	795.1	905.0	1,004.7	1,134.4
Percent of all commercial banks.....	11.1	11.5	16.1	67.4	69.6	68.5	67.9	68.2	68.7	70.6	74.1
Deposits (bil. dol.).....	18.3	27.6	78.1	446.6	509.7	527.5	553.6	624.3	691.1	744.7	840.6

Source: Board of Governors of the Federal Reserve System, *Banking and Monetary Statistics, 1941-1970; Annual Statistical Digest*, and unpublished data.

**NO. 854. MUTUAL SAVINGS BANKS—ASSETS AND LIABILITIES: 1960 TO 1980**

[In billions of dollars, except number of banks. As of Dec. 31. Includes Virgin Islands through 1965 and Puerto Rico through 1975. See *Historical Statistics, Colonial Times to 1970*, series X 687-688 and X 821-833, for related data]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980
Number of banks.....	515	506	494	480	476	473	467	465	463	460
Assets <sup>1</sup> .....	40.6	58.2	79.2	109.5	121.1	134.8	147.3	158.2	157.9	166.6
Loans and discounts, gross <sup>2</sup> .....	27.1	45.3	60.4	78.7	81.3	86.8	94.4	102.4	102.5	106.6
Real estate loans.....	26.9	44.6	57.9	74.9	77.2	81.6	88.2	95.2	96.2	98.1
Securities.....	12.0	11.0	16.2	26.0	34.2	42.0	46.6	47.8	46.1	48.0
U.S. Government.....	10.5	6.3	5.0	6.8	10.8	14.8	17.4	18.0	18.6	21.1
Other securities.....	1.5	4.7	11.2	19.1	23.4	27.2	29.1	29.8	27.5	26.9
Liabilities and surplus.....	40.6	58.2	79.2	109.5	121.1	134.8	147.3	158.2	157.9	166.6
Deposits.....	36.4	52.8	72.1	99.4	110.6	123.7	134.9	143.7	142.0	149.9
Miscellaneous liabilities.....	.7	.8	1.2	2.2	2.1	2.1	2.4	3.6	5.2	6.1
Surplus accounts.....	3.6	4.7	5.9	8.0	8.4	9.1	10.0	10.9	10.7	10.6

<sup>1</sup> Includes assets not shown separately. <sup>2</sup> Prior to 1970, data net of valuation reserves.

Source: U.S. Federal Deposit Insurance Corporation, *Annual Report*.

**NO. 855. SAVINGS AND LOAN ASSOCIATIONS (FSLIC-INSURED)—SELECTED FINANCIAL ITEMS AND RATIOS OF CONDITION: 1970 TO 1981**

[As of Dec. 31 for assets, liabilities and net worth except 1981, as of June 30; calendar year for other items. FSLIC—Federal Savings and Loan Insurance Corporation. FSLIC-insured savings and loan association represent approximately 98 percent of the resources of all operating savings and loan associations]

ITEM	Unit	1970	1975	1976	1977	1978	1979	1980	1981, Jan-June
Assets.....	Bil. dol.....	170.5	329.0	381.7	447.9	510.8	566.7	615.3	693.8
Mortgage loans outstanding.....	Bil. dol.....	146.1	271.3	315.3	372.4	423.5	466.5	492.7	505.7
Liabilities.....	Bil. dol.....	168.7	309.9	360.4	423.4	482.6	535.1	582.9	603.0
Net worth.....	Bil. dol.....	11.9	19.1	21.3	24.4	28.1	31.6	32.4	30.9
Gross operating income.....	Bil. dol.....	10.7	23.7	28.2	33.9	40.6	48.6	56.1	31.5
Operating expense.....	Bil. dol.....	1.9	3.9	4.6	5.3	6.2	7.1	7.9	4.4
Cost of funds.....	Bil. dol.....	6.1	17.6	20.5	24.1	28.7	36.4	47.4	29.4
Net income before taxes.....	Bil. dol.....	1.2	2.1	3.2	4.6	5.7	5.2	1.2	-1.9
Net income after taxes.....	Bil. dol.....	.9	1.4	2.2	3.2	3.9	3.6	.8	-1.5
Gross savings receipts.....	Bil. dol.....	62.0	151.1	180.8	214.5	266.4	354.5	454.5	241.2
New savings received.....	Bil. dol.....	56.5	138.4	165.4	196.3	245.7	330.6	424.2	222.9
Interest/dividends credited.....	Bil. dol.....	5.5	12.8	15.4	18.2	20.7	23.9	30.3	18.3
Savings withdrawals.....	Bil. dol.....	51.2	109.1	131.1	164.3	222.2	315.6	413.5	234.0
Net savings inflow.....	Bil. dol.....	10.8	42.1	49.7	50.2	44.2	38.9	41.0	7.2
Net new savings received.....	Bil. dol.....	5.3	29.3	34.4	32.0	23.5	15.0	10.7	-11.1
Mortgage loans closed.....	Bil. dol.....	20.8	53.8	77.1	105.3	108.3	98.7	71.3	29.7
Average cost of funds.....	Percent.....	5.30	6.32	6.38	6.44	6.67	7.47	8.94	9.39
Average effective dividend rate paid.....	Percent.....	5.14	6.21	6.31	6.39	6.56	7.29	8.78	10.15
Average interest return on mortgages.....	Percent.....	6.56	7.66	7.95	8.21	8.47	8.83	9.31	9.72
Net income to average assets.....	Percent.....	.57	.47	.63	.77	.82	.67	.13	-.49

Source: U.S. Federal Home Loan Bank Board, *Combined Financial Statements*, annual; *Savings and Home Financing Source Book*, annual; and *Federal Home Loan Bank Board Journal*, monthly.

# Savings and Loan Associations

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## NO. 856. SAVINGS AND LOAN ASSOCIATIONS—FINANCIAL ITEMS: 1960 TO 1980

[In billions of dollars, except number of associations. As of December 31, except as indicated. Includes Puerto Rico and Guam. See headnote, table 857. Beginning 1965, excludes associations which have either liquidated or converted to banks; for details, see source. See also *Historical Statistics, Colonial Times to 1970*, series X 834-844]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980, prel.
Number of associations .....	6,320	6,185	5,669	5,298	5,170	5,086	4,831	4,821	4,761	4,725	4,684	4,613
Number Insured .....	4,098	4,508	4,365	4,191	4,163	4,141	4,078	4,044	4,065	4,053	4,039	4,002
Total assets .....	71.5	129.6	176.2	243.1	271.9	295.5	338.2	391.9	459.2	523.6	579.0	630.0
Cash and investment securities .....	7.9	12.1	16.5	24.4	21.1	23.3	30.9	35.7	39.2	44.9	46.3	57.6
Mortgage loans outstanding <sup>1</sup> .....	60.1	110.3	150.3	206.2	231.7	249.3	278.6	323.0	381.2	432.9	475.7	502.8
Other assets .....	3.5	7.2	9.3	12.6	19.1	22.9	28.7	33.2	38.9	45.9	56.9	69.4
Total liabilities .....	66.5	120.9	163.8	227.9	254.8	277.1	318.5	369.9	434.0	494.6	546.3	596.5
Savings capital .....	62.1	110.4	146.4	206.8	227.0	243.0	285.7	335.9	386.8	431.0	470.0	511.0
Other <sup>2</sup> .....	4.4	10.5	17.4	21.1	27.9	34.1	32.7	34.0	47.2	63.6	76.3	85.6
Net worth .....	(NA)	(NA)	12.4	15.2	17.1	18.4	19.8	22.0	25.2	29.0	32.6	33.3
Mortgage loans made during year <sup>1,3,4</sup> .....	14.3	24.2	21.4	51.4	49.4	39.0	55.0	70.8	107.4	110.3	100.5	72.5
Home construction <sup>4</sup> .....	4.7	6.0	4.2	8.5	8.4	6.5	8.7	13.0	18.2	20.1	18.6	13.5
Home purchase <sup>4</sup> .....	6.1	10.8	10.2	26.6	28.2	22.6	30.7	45.7	62.5	65.6	60.7	41.9
Net new savings <sup>5</sup> .....	(NA)	(NA)	5.3	23.9	10.5	4.7	29.3	34.4	32.0	23.5	15.0	10.7

NA. Not available. <sup>1</sup> Beginning 1970, real estate sold on contract included in mortgage lending data; prior years, in "Other assets." <sup>2</sup> Prior to 1970, permanent stock included in "Other liabilities"; thereafter, in "Net worth." <sup>3</sup> Includes loans not shown separately. <sup>4</sup> Covers only 1-4 unit residential structures. <sup>5</sup> Insured associations only.

Source: U.S. Federal Home Loan Bank Board, *Savings and Home Financing Source Book*, annual.

## NO. 857. SAVINGS AND LOAN ASSOCIATIONS—SELECTED FINANCIAL ITEMS, STATES AND OTHER AREAS: 1979

[In millions of dollars, except number of associations. As of December 31. Major balance sheet items for all operating and insured associations not identical with those shown in table 856, primarily because some State-chartered associations submit their reports on dates other than Dec. 31]

STATE	Number of associations	Total assets	Mortgage loans outstanding	Savings capital	STATE OR OTHER AREA	Number of associations	Total assets	Mortgage loans outstanding	Savings capital																		
<b>Total</b> .....	<b>4,684</b>	<b>577,581</b>	<b>474,936</b>	<b>468,811</b>	Montana .....	15	1,075	925	891																		
Alabama .....	62	4,673	3,816	4,052	Nebraska .....	40	5,024	4,243	3,851																		
Alaska .....	5	298	231	229	Nevada .....	8	2,204	1,703	1,639																		
Arizona .....	16	5,669	4,592	4,758	New Hampshire .....	17	1,058	893	805																		
Arkansas .....	76	4,196	3,254	3,704	New Jersey .....	212	22,410	16,380	18,664																		
California .....	179	109,937	92,512	84,166	New Mexico .....	33	2,344	1,898	1,931																		
Colorado .....	46	8,918	7,234	6,745	New York .....	122	26,637	17,938	21,685																		
Connecticut .....	38	4,071	3,250	3,530	North Carolina .....	205	11,449	9,990	9,827																		
Delaware .....	18	278	246	216	North Dakota .....	11	2,226	1,858	1,696																		
District of Columbia .....	16	4,909	4,288	3,748	Ohio .....	394	37,757	31,295	31,015																		
Florida .....	123	46,256	37,521	38,996	Oklahoma .....	59	5,370	4,515	4,291																		
Georgia .....	99	10,239	8,701	8,597	Oregon .....	31	6,657	5,465	5,263																		
Hawaii .....	7	2,613	2,247	1,909	Pennsylvania .....	383	23,267	19,388	19,001																		
Idaho .....	12	991	859	789	Rhode Island .....	6	759	646	627																		
Illinois .....	382	42,495	35,468	35,033	South Carolina .....	75	5,931	5,112	5,058																		
Indiana .....	164	8,805	8,299	8,486	South Dakota .....	19	1,022	813	883																		
Iowa .....	78	6,815	5,743	5,704	Tennessee .....	98	6,904	5,844	5,723																		
Kansas .....	82	6,821	5,940	5,478	Texas .....	312	31,351	25,410	25,315																		
Kentucky .....	105	5,567	4,767	4,813	Utah .....	16	3,999	3,477	2,777																		
Louisiana .....	126	7,825	6,324	6,581	Vermont .....	7	242	201	202																		
Maine .....	21	663	544	565	Virginia .....	85	8,819	7,654	7,350																		
Maryland .....	201	3,902	8,585	8,096	Washington .....	48	9,220	7,930	6,948																		
Massachusetts .....	162	7,918	5,990	6,768	West Virginia .....	34	1,465	1,162	1,253																		
Michigan .....	65	16,924	14,646	14,447	Wisconsin .....	114	11,923	10,285	9,828																		
Minnesota .....	56	8,997	8,301	7,964	Wyoming .....	13	871	701	734																		
Mississippi .....	59	2,717	2,129	2,314	Puerto Rico .....	12	1,858	1,498	1,443																		
Missouri .....	115	15,069	12,194	12,244	Guam .....	2	72	52	60																		

Source: U.S. Federal Home Loan Bank Board, *Asset and Liability Trends*, annual.

**NO. 858. FEDERAL AND STATE-CHARTERED CREDIT UNIONS—SUMMARY: 1960 TO 1980**

[As of December 31, Federal data include District of Columbia, Puerto Rico, Canal Zone, Guam, and Virgin Islands. State data include Puerto Rico. See also *Historical Statistics, Colonial Times to 1970*, series X 864-878]

YEAR	CREDIT UNIONS REPORTING <sup>1</sup>		MEMBERS (1,000)		ASSETS (mil. dol.)		LOANS OUTSTANDING (mil. dol.)		SAVINGS (mil. dol.)	
	Federal	State <sup>2</sup>	Federal	State <sup>2</sup>	Federal	State <sup>2</sup>	Federal	State <sup>2</sup>	Federal	State <sup>2</sup>
1960.....	9,905	10,151	6,087	5,971	2,670	2,989	2,021	2,381	2,944	2,637
1965.....	11,543	10,521	8,641	8,115	5,166	5,385	3,865	4,293	4,538	4,682
1970.....	12,977	10,679	11,966	10,853	8,861	9,089	6,969	7,197	7,629	7,857
1975.....	12,737	9,871	17,066	14,196	20,209	17,804	14,869	13,300	17,530	15,522
1978.....	12,759	9,443	23,259	17,481	34,780	27,588	27,887	23,582	29,803	23,715
1979.....	12,738	9,274	24,793	18,468	35,467	29,524	28,547	23,677	31,831	25,628
1980, prel.....	12,440	9,208	26,829	19,393	40,082	31,908	26,350	22,147	36,263	28,051

<sup>1</sup> Represents operating credit unions. <sup>2</sup> No State or local credit union law in Alaska, Del., S. Dak., Wyo., and for 1960-1975, Hawaii and Nev. <sup>3</sup> Includes members' deposits.

Source: 1960 and 1965, U.S. Social Security Administration, *Federal Credit Union Program*, annual. Beginning 1970, National Credit Union Administration, *Annual Report of the National Credit Union Administration and State-Chartered Credit Unions*.

**NO. 859. FINANCE COMPANIES—ASSETS AND LIABILITIES: 1970 TO 1980**

[In millions of dollars, except number of companies. As of June 30, Finance companies include Morris Plan Companies and companies whose largest portion of assets is in one or more of the following kinds of receivables—sales finance receivables, personal cash loans to individuals and families, short- and intermediate-term business receivables, and junior liens on real estate. For 1980 based on a stratified random sample of 469 companies. NA Not available]

ITEM	1970	1975	1980	ITEM		1970	1975	1980
				Assets—Con.	Total liabilities, capital, and surplus			
Number of companies.....	2,961	3,876	2,775	Less reserves for unearned income .....	5,191	7,684	21,251	
<b>Total assets, net</b> .....	<b>60,577</b>	<b>88,716</b>	<b>175,025</b>	Less reserves for losses .....	1,123	1,623	2,981	
Total receivables, gross.....	57,113	85,994	183,341	Total receivables, net.....	50,859	76,687	159,108	
Consumer receivables.....	31,773	40,814	77,280	Other assets.....	9,718	12,029	15,917	
Retail passenger car paper.....	9,250	9,938	27,118	<b>Total liabilities, capital, and surplus</b> .....	<b>60,577</b>	<b>88,716</b>	<b>175,025</b>	
Mobile homes.....	2,327	3,461	4,832	Loans and notes payable to banks .....	7,551	8,817	15,458	
Retail consumer goods.....	7,816	12,647	22,702	Short-term.....	6,581	7,900	7,885	
Personal cash loans.....	12,380	14,769	22,609	Long-term.....	968	718	7,573	
Business receivables.....	22,999	39,286	86,067	Commercial paper.....	22,073	25,905	62,328	
Wholesale paper.....	7,521	10,945	21,741	Other short-term debt .....	5,082	7,408	10,627	
Retail paper.....	6,583	11,067	26,318	Other long-term debt .....	15,501	29,013	52,898	
Lease paper.....	3,802	8,065	23,261	Other liabilities.....	424	3,823	18,353	
Other business credit.....	5,113	9,208	14,747	Capital, surplus, undivided profits.....	9,947	13,951	25,350	
Real estate loans.....	(NA)	1,946	11,831					
Other receivables.....	2,342	3,948	8,183					

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, November 1972, March 1976 and May 1981 issues.

**NO. 860. SELECTED FEDERAL CREDIT AGENCIES—BALANCE SHEET ITEMS: 1960 TO 1980**

[In billions of dollars. As of Dec. 31. Excludes capital accounts except for stock of home loan banks. Bonds, debentures, and notes valued at par; include only publicly offered securities and are not guaranteed by U.S. Government. Loans are gross of valuation reserves and represent cost for FNMA and unpaid principal for other agencies. See *Historical Statistics, Colonial Times to 1970*, series N 300, for FHLB advances]

AGENCY AND ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
<b>Federal home loan banks (FHLB):</b>											
Assets: Advances to members .....	2.0	6.0	10.6	15.1	21.8	17.8	15.9	20.2	32.7	41.8	49.0
Investments .....	1.2	1.6	3.9	3.4	9.1	4.4	6.1	3.7	3.4	3.7	4.3
Liabilities: Bonds and notes .....	1.5	5.2	10.2	15.4	21.9	18.9	16.8	18.3	27.6	33.3	41.3
Deposits and borrowings .....	.9	1.0	2.3	1.7	2.5	2.7	4.0	4.3	6.2	9.4	10.1
Capital stock .....	1.0	1.3	1.6	2.1	2.6	2.7	2.9	3.3	4.1	5.1	5.2
<b>FNMA:<sup>1</sup></b>											
Assets: Mortgage loans .....	2.8	2.5	15.5	24.2	29.6	31.8	32.9	34.4	43.2	50.8	57.0
Liabilities: Debentures <sup>2</sup> .....	2.5	1.9	15.2	23.0	28.2	30.0	30.6	31.9	41.1	48.5	55.2
<b>Banks for cooperatives:</b>											
Assets: Loans to cooperatives .....	.8	1.1	2.0	2.6	3.6	4.0	4.4	5.7	6.1	8.1	9.8
Liabilities: Debentures .....	.4	.8	1.8	2.7	3.6	3.7	4.3	4.4	4.8	.6	.6
<b>Federal intermediate credit banks:</b>											
Assets: Loans and discounts .....	1.5	2.5	5.0	7.2	8.8	10.0	11.3	12.8	15.7	19.1	19.4
Liabilities: Debentures .....	1.5	2.3	4.8	6.9	8.6	9.3	10.5	11.2	11.5	2.7	1.8
<b>Federal land banks:</b>											
Assets: Loans .....	2.6	4.3	7.2	11.1	13.6	16.6	18.1	22.8	25.6	31.0	39.1
Liabilities: Bonds .....	2.2	3.7	6.4	10.1	12.7	15.0	17.1	19.1	20.4	16.0	12.4
Consolidated notes and bonds .....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	2.5	5.1	33.2	48.2

X Not applicable.

<sup>1</sup> Secondary market operations of Federal National Mortgage Association.

<sup>2</sup> Includes notes.

<sup>2</sup> Begun issuance in Sept. 1977; in 1979, issuance on a regular basis replacing financing activities of Federal land banks, Federal intermediate credit banks, and banks for cooperatives.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

**No. 861. FOREIGN LENDING BY LARGE U.S. BANKS, BY COUNTRY, TYPE OF BORROWER, AND MATURITY: 1980**

[In millions of dollars. As of December. Covers 153 banks with assets of \$1 billion or more which do nearly all of the foreign lending in the country. Data represent claims on foreign residents and institutions held at all domestic and foreign offices of covered banks]

Country	Total claims <sup>1</sup>	Bank borrowers	Public borrowers	Maturity, <sup>1</sup> year or less	Country	Total claims <sup>1</sup>	Bank borrowers	Public borrowers	Maturity, <sup>1</sup> year or less
<b>Total <sup>2</sup></b>	<b>286,532</b>	<b>158,512</b>	<b>47,549</b>	<b>210,697</b>	Iran	768	249	336	461
Algeria	1,536	282	1,040	478	Ireland	1,185	221	532	650
Argentina	6,866	2,801	1,498	4,714	Israel	1,605	1,269	201	1,192
Australia	1,635	211	278	850	Italy	6,139	3,421	1,497	4,466
Austria	1,607	1,385	113	1,398	Japan	18,673	10,429	144	14,556
Bahamas	11,347	10,790	14	10,771	Korea, Rep. of	7,343	3,889	1,158	5,850
Bahrain	1,824	1,682	98	1,769	Kuwait	1,256	866	19	1,169
Belgium—Luxembourg	10,542	9,558	226	10,006	Liberia	2,479	23	81	1,028
Bolivia	476	78	236	278	Mexico	15,720	2,993	4,624	8,886
Brazil	14,459	5,340	4,720	6,726	Morocco	665	134	425	310
British West Indies	6,026	7,732	71	7,880	Netherlands	3,748	2,857	6	3,212
Bulgaria	425	208	209	200	Nicaragua	450	91	277	252
Canada	8,538	6,278	959	6,930	Nigeria	930	158	678	366
Chile	3,722	1,850	848	1,781	Norway	2,551	369	229	910
China:					Panama	4,727	3,327	332	4,003
Mainland	215	127	58	155	Peru	1,724	606	842	1,210
Taiwan	4,408	1,331	1,310	3,130	Philippines	4,646	1,520	1,599	3,183
Columbia	2,655	1,009	635	1,836	Poland	2,085	1,047	874	1,207
Denmark	2,689	847	847	1,251	Portugal	748	260	320	532
Ecuador	1,935	499	684	1,214	Saudi Arabia	1,317	432	35	1,095
Egypt	841	545	196	756	Singapore	4,891	4,299	97	4,580
Finland	1,598	649	409	926	South Africa	1,058	444	281	704
France	11,408	9,481	1,009	9,754	Soviet Union	482	229	199	194
German Dem. Rep.	1,154	678	429	574	Spain	4,153	1,464	716	2,333
Germany, Fed. Rep.	6,888	2,239	392	5,512	Sweden	3,146	1,539	889	2,092
Greece	2,640	456	692	1,172	Switzerland	3,685	2,383	135	3,481
Hong Kong	5,508	3,084	202	4,340	Thailand	1,561	955	278	1,146
Hungary	907	236	640	317	Turkey	1,534	223	1,224	338
Indonesia	2,038	372	743	1,160	Un. Arab Emirates	1,292	674	381	942
					United Kingdom	45,736	36,213	1,543	39,355
					Venezuela	9,695	1,771	3,939	6,909
					Yugoslavia	2,387	1,380	390	756
					Zaire	213	28	179	67

NA Not available. <sup>1</sup> Includes nonbank private borrowers and maturity over one year, not shown separately. <sup>2</sup>Includes countries not shown separately.

Source: Board of Governors of the Federal Reserve System, Federal Financial Institutions Examination Council, statistical release.

**No. 862. HOLDINGS OF CONSTRUCTION, LONG-TERM MORTGAGE, AND LAND LOANS, BY TYPE OF LOAN, 1970 TO 1980, AND BY LENDER, 1980**

[In billions of dollars. As of end of year]

TYPE OF LOAN	1970	1975	1976	1977	1978	1979	1980					
							Total <sup>1</sup>	Lender				
								Savings and loan assn.	Commercial banks	Mutual savings banks	Life insurance companies	
<b>Mortgage credits, total.....</b>	<b>422.0</b>	<b>731.3</b>	<b>805.2</b>	<b>925.8</b>	<b>1,064.8</b>	<b>1,214.1</b>	<b>1,314.7</b>	<b>502.8</b>	<b>259.1</b>	<b>100.1</b>	<b>127.9</b>	<b>124.2</b>
Construction loans.....	18.3	41.4	37.2	45.0	54.2	61.0	64.0	20.5	32.8	1.6	.8	1.7
1-4 unit family homes	5.4	12.9	15.3	22.0	26.2	27.1	26.7	13.5	11.6	.4	—	—
Multifamily residential	6.2	11.6	9.4	9.4	11.0	12.3	13.2	3.0	4.8	.6	—	1.7
Nonresidential	6.5	16.9	12.5	13.6	16.9	21.6	24.1	4.0	16.2	.6	.8	—
Farm properties	.1	—	—	—	—	—	—	—	—	—	—	—
Long-term mortgage loans.....	399.5	678.8	757.3	871.0	999.8	1,141.6	1,238.3	476.8	222.1	98.3	126.7	122.5
1-4 unit family homes	266.9	434.5	493.0	579.7	677.6	787.5	855.4	409.7	145.1	68.2	17.4	64.3
FHA insured	61.9	67.8	71.5	74.6	80.8	95.4	104.9	11.5	4.0	10.3	4.4	22.7
VA guaranteed	37.2	56.8	61.7	69.1	75.3	85.6	91.3	15.0	2.5	10.8	2.8	12.4
Conventional	167.8	309.9	359.8	434.9	521.5	606.5	659.3	383.2	138.6	47.1	10.2	29.2
Multifamily	45.8	81.9	87.4	93.8	100.9	108.5	114.1	34.3	6.6	14.7	19.0	15.8
Nonresidential	66.4	128.4	139.0	154.8	171.3	188.1	203.5	32.3	62.3	15.4	77.5	5.8
Farm properties	20.3	33.8	37.9	43.7	49.9	57.6	65.3	.4	8.1	—	12.8	36.5
Land loans.....	4.2	11.1	10.7	9.8	10.9	11.5	12.5	5.5	4.4	.2	.3	—

<sup>—</sup> Represents zero. <sup>1</sup> Includes lenders not shown separately.

Source: U.S. Dept. of Housing and Urban Development, *The Supply of Mortgage Credit, 1970-1979*; and monthly and quarterly press releases based on *Survey of Mortgage Lending Activity*.

## No. 863. MORTGAGE DEBT OUTSTANDING, BY TYPE OF HOLDER: 1960 TO 1980

[In billions of dollars, except percent. As of Dec. 31. Includes Puerto Rico and Guam. 1980 data are preliminary. See also *Historical Statistics, Colonial Times to 1970*, series N 273 and N 276]

TYPE OF PROPERTY AND HOLDER	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	PERCENT		
											1960	1970	1980
Total.....	207	333	474	743	802	889	1,021	1,169	1,327	1,452	100.0	100.0	100.0
Residential nonfarm.....	162	258	358	549	591	661	768	886	1,008	1,097	78.3	75.6	75.6
1- to 4-family homes.....	142	220	288	449	491	556	656	765	879	960	68.6	62.9	66.1
Savings and loan assns.....	55	94	125	201	224	261	311	356	394	419	26.6	26.4	28.9
Commercial banks.....	19	30	42	75	77	86	105	129	149	161	9.2	8.9	11.1
Mutual savings banks.....	21	34	42	49	50	53	58	62	64	65	10.1	8.8	4.5
Life insurance companies.....	25	30	27	19	18	13	15	14	16	18	12.1	5.6	1.2
Federal agencies.....	7	6	22	33	38	36	36	44	53	61	3.4	4.6	4.2
Individuals and others.....	15	26	38	72	84	104	131	160	203	236	7.2	8.5	16.3
5 or more units.....	20	37	60	100	101	105	112	121	129	137	9.7	12.7	9.4
Commercial.....	32	54	86	147	159	171	190	212	237	258	15.5	18.0	17.8
Farm.....	13	21	30	46	51	57	64	71	83	98	6.3	6.4	6.7

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## No. 864. MORTGAGE ACTIVITY OF BANKS, INSURANCE COMPANIES, AND SAVINGS AND LOAN ASSOCIATIONS: 1960 TO 1980

[In billions of dollars. Loans outstanding are as of end of year. Bank and savings and loan data include Puerto Rico. See *Historical Statistics, Colonial Times to 1970*, series N 266-267, X 836-839, and X 911]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980
<b>Commercial banks:</b>												
Loans outstanding <sup>1</sup> .....	28.8	49.7	73.3	99.3	119.1	132.1	138.2	151.3	177.8	212.7	246.2	259.1
Nonfarm residential.....	20.4	32.4	45.6	62.8	74.9	82.4	82.9	94.3	111.7	136.3	159.7	188.1
FHA-insured.....	5.9	7.7	7.9	8.5	8.2	7.2	6.3	5.6	5.3	5.2	4.8	4.4
VA-guaranteed.....	2.9	2.7	2.6	3.2	3.3	3.2	3.1	3.0	3.0	2.8	2.7	2.5
Conventional.....	11.7	22.0	35.1	51.1	63.4	72.0	73.5	85.7	103.4	128.3	152.2	161.2
Other nonfarm.....	6.8	14.4	23.3	31.8	38.7	43.7	46.8	50.3	58.3	68.0	78.0	82.9
Farm.....	1.6	2.8	4.4	4.8	5.4	6.0	6.4	6.7	7.8	8.5	8.5	8.1
<b>Mutual savings banks:</b>												
Loans acquired.....	4.4	8.7	6.1	12.6	13.0	8.6	8.9	12.1	15.3	15.5	14.0	8.2
Loans outstanding <sup>2</sup> .....	26.9	44.6	57.9	67.6	73.2	74.9	77.2	81.6	88.1	94.4	99.7	100.1
Nonfarm residential.....	24.3	40.1	49.9	57.1	61.1	62.1	63.8	67.3	72.9	78.5	83.7	83.9
FHA-insured.....	7.1	13.8	16.1	16.0	15.5	14.8	14.4	14.6	14.0	13.8	13.8	13.2
VA-guaranteed.....	9.0	11.4	12.0	12.6	12.9	12.7	12.4	12.3	12.0	11.9	11.4	10.8
Conventional.....	8.2	14.9	21.8	28.5	32.7	34.6	37.0	40.4	46.9	52.9	58.5	59.9
Other nonfarm.....	2.6	4.5	7.9	10.4	12.0	12.7	13.3	14.3	15.2	15.9	16.0	16.1
<b>Life insurance companies:</b>												
Loans acquired.....	6.1	11.1	6.6	8.1	10.7	10.5	8.8	9.0	13.3	16.9	19.6	18.3
Nonfarm.....	5.6	10.0	6.3	7.4	9.7	9.5	7.7	7.5	10.8	14.2	16.8	16.5
Farm.....	.5	1.1	.3	.7	1.0	1.0	1.1	1.5	2.4	2.7	2.8	1.8
Loans outstanding.....	41.8	60.0	74.4	76.9	81.4	86.2	89.2	91.6	96.8	102.9	115.1	127.9
Nonfarm.....	38.8	55.2	68.7	71.3	75.4	79.7	82.4	84.1	87.9	92.4	103.0	118.0
FHA-insured.....	9.0	12.1	11.4	10.0	9.2	8.5	7.9	7.3	6.6	6.1	5.8	5.5
VA-guaranteed.....	6.8	6.3	5.4	4.7	4.4	4.2	3.9	3.6	3.3	3.2	3.0	2.8
Other.....	22.8	36.8	51.9	56.6	61.8	67.2	70.6	73.2	78.0	83.1	94.2	106.7
Farm.....	3.0	4.8	5.6	5.7	6.0	6.3	6.8	7.5	8.8	10.5	12.2	12.8
<b>Savings and loan associations:</b>												
Loans made <sup>3</sup> .....	14.3	23.8	25.8	60.6	60.0	47.8	62.6	90.7	123.8	128.2	116.9	86.7
Loans outstanding <sup>4</sup> .....	60.1	110.3	150.3	206.2	231.7	249.3	278.6	323.0	381.2	432.9	475.8	502.8
FHA-insured.....	3.5	5.1	10.2	15.4	15.1	14.5	16.5	14.7	13.9	13.2	13.0	12.8
VA-guaranteed.....	7.2	6.4	8.5	13.5	14.7	15.3	14.0	16.6	16.2	15.8	15.6	15.0
Conventional.....	49.3	98.8	131.7	177.3	202.0	219.4	248.0	291.7	351.0	403.9	447.2	475.0

<sup>1</sup> Includes loans held by nondeposit trust companies; excludes holdings of trust departments of commercial banks. <sup>2</sup> Includes a small amount of farm loans not shown separately. <sup>3</sup> Includes Guam. <sup>4</sup> Includes shares pledged against mortgage loans, and beginning 1970, junior liens and real estate sold on contract.

Source: U.S. Department of Housing and Urban Development, *The Supply of Mortgage Credit, 1970-1979*; and monthly and quarterly press releases based on the Survey of Mortgage Lending Activity.

## NO. 865. CONSUMER CREDIT: 1960 TO 1981

[In billions of dollars, except percent. Estimated amounts of credit outstanding as of end of year or month; extended and repaid, for entire year or month. See also *Historical Statistics, Colonial Times to 1970*, series X 551-560]

TYPE OF CREDIT	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981, May
Credit outstanding.....	65.2	103.2	143.1	177.7	203.1	213.4	223.1	248.9	289.2	337.9	383.3	385.6	389.0
Ratio to disposable personal income <sup>1</sup> (percent) .....	18.5	20.8	20.0	20.7	21.2	20.7	19.6	20.1	20.6	21.0	24.7	20.2	(NA)
Installment.....	45.1	73.9	105.5	133.2	155.1	164.6	172.0	193.5	230.6	273.6	312.0	313.4	315.5
Automobile paper.....	18.1	29.4	36.3	47.9	53.8	54.3	57.2	67.7	82.9	101.6	116.4	116.3	118.9
Revolving.....	(NA)	(NA)	5.1	9.7	11.7	13.7	15.0	17.2	39.3	48.3	56.9	59.9	57.5
Mobile home paper.....	(NA)	(NA)	2.5	9.5	13.6	14.6	14.4	14.6	15.0	15.2	16.8	17.3	17.6
All other loans.....	27.0	44.5	61.6	65.1	76.0	82.0	85.3	94.1	93.4	108.5	121.9	119.9	121.4
Noninstallment.....	20.1	29.3	37.6	44.5	48.0	48.8	51.1	55.4	58.6	64.3	71.3	72.2	73.5
Single-payment loans.....	9.1	15.5	19.3	25.2	27.3	26.8	27.4	28.8	32.8	35.8	40.0	39.9	40.1
Charge accounts.....	7.2	8.3	9.2	10.3	10.7	11.2	11.7	13.2	11.0	12.0	12.7	13.0	12.6
Service credit.....	3.7	5.5	9.1	9.0	10.0	10.9	12.0	13.4	14.8	16.4	18.6	19.3	20.8
Installment credit:													
Extended.....	50.8	79.9	115.1	152.3	173.0	172.8	180.1	210.7	257.6	297.7	324.8	305.9	28.2
Liquidated.....	47.0	71.6	110.4	136.8	152.8	163.3	172.7	189.2	222.1	254.5	266.4	304.5	26.8
Net change.....	3.8	8.3	4.7	15.5	20.2	9.5	7.4	21.6	35.5	43.1	38.4	1.4	1.4
Ratio: Liquidations to disposable income <sup>1, 2</sup> (percent) .....	13.3	15.0	15.9	16.9	16.7	16.4	15.8	15.8	17.0	17.4	17.4	16.7	16.2
Life insurance policy loans <sup>3</sup> .....	5.2	7.7	16.1	18.0	20.2	22.9	24.5	25.8	27.6	30.1	34.8	38.8	41.4
Delinquency rate, bank installment loans <sup>4</sup> .....	1.93	1.81	2.14	2.19	2.53	3.13	2.77	2.57	2.62	2.71	2.93	2.82	2.37

NA. Not available. <sup>1</sup> See table 713. <sup>2</sup> Seasonally adjusted. <sup>3</sup> Source: American Council of Life Insurance, Washington, D.C. Yearend figures are annual statement asset values; monthend figures are book value of ledger assets. These loans are not included in "Credit outstanding." <sup>4</sup> Number of loans delinquent 30 days or more as a percentage of total Installment loans outstanding. Source: American Bankers Association, Washington, D.C., *Delinquency Rates on Bank Installment Loans*. <sup>5</sup> March.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## NO. 866. CONSUMER INSTALLMENT CREDIT OUTSTANDING, BY HOLDER: 1960 TO 1981

[In billions of dollars, As of end of year or month. Estimated]

HOLDER	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981, May
Total .....	45.0	73.9	105.5	133.2	155.1	164.6	172.0	193.5	230.5	273.6	312.0	313.4	315.5
Commercial banks.....	18.7	31.8	48.7	64.6	75.9	80.1	82.9	93.7	112.4	136.1	154.2	145.8	142.1
Finance companies.....	15.4	23.9	27.6	31.9	35.4	36.1	36.0	38.9	44.9	54.3	68.3	76.8	81.8
Credit unions.....	3.9	7.3	13.0	17.0	19.6	21.9	25.7	31.2	37.6	44.3	46.5	44.0	45.1
Retailers <sup>1</sup> .....	6.3	9.8	13.9	15.0	16.6	18.1	18.2	19.3	23.5	26.0	28.1	29.4	27.3
Other <sup>2</sup> .....	.7	1.1	2.9	4.8	7.8	8.4	9.2	10.5	12.2	13.0	14.9	17.5	19.2

<sup>1</sup> Excludes 30-day charge credit held by retailers, oil and gas companies, and travel and entertainment companies.  
<sup>2</sup> Includes mutual savings banks, savings and loan associations, and gasoline companies.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## NO. 867. INSTALLMENT CREDIT—FINANCE RATES ON SELECTED TYPES OF CREDIT FOR COMMERCIAL BANKS AND FINANCE COMPANIES: 1972 TO 1981

[Percent per year. Annual averages, except as indicated. Commercial bank rates are "most common" rates for direct loans with specified maturities; finance company rates are weighted averages for purchased contracts, except personal loans]

TYPE	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981, May
Commercial banks:										
New automobiles (36 months).....	10.05	10.21	10.97	11.36	11.07	10.92	11.02	12.02	14.30	16.04
Mobile homes (64 months).....	10.79	10.94	11.45	11.82	11.75	11.84	12.09	12.77	14.99	17.02
Other consumer goods (24 months).....	12.46	12.60	12.99	13.08	13.02	12.97	13.19	13.85	15.47	17.48
Personal loans (12 months).....	12.68	12.83	13.26	13.41	13.30	13.39	13.61	14.09	15.68	17.93
Credit-card plans.....	17.21	17.21	17.21	17.16	17.05	16.89	17.03	17.03	17.31	17.71
Finance companies:										
New automobiles.....	11.90	12.08	12.61	13.12	13.17	13.14	13.14	13.48	14.84	16.07
Used automobiles.....	16.53	16.70	17.18	17.64	17.63	17.62	17.63	17.95	19.10	18.70
Mobile homes.....	12.42	12.78	13.29	13.63	13.44	13.58	13.43	13.64	15.47	17.54
Other consumer goods.....	19.35	18.87	19.09	19.78	19.51	19.21	19.04	19.08	20.61	21.00
Personal loans.....	21.09	20.61	20.74	20.97	21.04	20.54	20.52	20.49	21.13	20.75

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly, and *Annual Statistical Digest*.

## Banking, Finance, and Insurance

## No. 868. MONEY STOCK AND MONEY IN CIRCULATION: 1950 TO 1980

[In billions of dollars, except as indicated. Prior to 1970, as of June 30; thereafter, as of Dec. 31. See *Historical Statistics, Colonial Times to 1970*, series X 423, for money in circulation]

KIND OF MONEY	1950	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
Total money stock.....	37.9	42.4	50.2	58.1	85.9	93.0	92.1	100.1	111.9	124.7	138.5	154.0
Percent gold.....	63.9	45.6	27.7	15.5	13.5	12.5	12.6	11.6	10.5	9.4	8.1	7.3
Bullion and coin, total.....	28.1	24.2	18.9	17.1	19.7	20.3	21.2	21.8	22.4	22.9	23.7	24.4
Gold <sup>1</sup> .....	24.2	19.3	13.9	10.6	11.6	11.7	11.6	11.6	11.7	11.7	11.2	11.2
Cupronickel-clad dollars.....	-	-	-	-	.3	.3	.5	.6	.6	.7	1.4	1.5
Subsidiary and minor coin.....	1.4	2.1	3.2	6.0	7.3	7.8	8.6	9.2	9.6	10.1	10.6	11.2
Other <sup>2</sup> .....	2.5	2.7	1.8	.5	.5	.5	.5	.5	.5	.5	.5	.5
Paper currency, net.....	35.3	39.8	48.0	61.5	77.7	84.3	82.5	89.9	101.1	113.4	125.9	140.8
Federal Reserve notes and bank notes.....	23.9	28.5	37.4	53.8	68.2	75.2	81.9	89.4	100.6	112.9	125.4	140.8
Gold certificates, net <sup>3</sup> .....	8.7	8.5	7.4	7.1	8.9	8.6	(2)	(2)	(2)	(2)	(2)	(2)
Other.....	2.8	2.8	1.2	.5	.5	.5	.5	.5	.5	.5	.5	.5
Money in circulation.....	27.2	32.1	38.7	57.1	72.5	79.7	86.5	93.7	103.8	114.6	125.6	137.2
Per capita (dol.).....	179	177	204	276	343	375	403	433	477	522	566	600

<sup>1</sup> Represents zero. <sup>2</sup> Less than \$50 million. <sup>3</sup> Valued at \$35 per fine ounce until May 7, 1972; valued at \$38 per fine ounce until October 18, 1973; \$42 thereafter. Excludes gold deposited with U.S. by International Monetary Fund from September 1965 to February 1972.

<sup>2</sup> Includes standard silver dollars. <sup>3</sup> Includes gold certificates outside Treasury, credits payable in gold certificates, and redemption fund for Federal Reserve notes.

<sup>4</sup> Beginning 1975, not comparable with earlier years because of decision by Federal Reserve Banks to pledge substantially all gold certificates against Federal Reserve notes outstanding.

Source: U.S. Dept. of the Treasury, *Statistical Appendix to the Annual Report of the Secretary of the Treasury on the State of the Finances*; *Monthly Statement of United States Currency and Coin*, Form 1028; and unpublished data.

## No. 869. MONEY IN CIRCULATION, BY DENOMINATION: 1960 TO 1980

[In millions of dollars. As of December 31]

DENOMINATION	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
Total <sup>1</sup> .....	32,889	42,056	57,093	72,497	79,743	86,547	93,717	103,811	114,645	125,600	137,244
Coin and small currency.....	23,521	29,842	39,639	48,288	51,606	54,865	57,645	62,543	66,693	70,693	73,893
Coin.....	2,427	4,027	6,281	7,759	8,332	8,959	9,483	10,071	10,739	11,658	12,419
\$1 <sup>2</sup> .....	1,533	1,904	2,310	2,639	2,720	2,809	2,854	3,038	3,194	3,308	3,499
\$2.....	88	127	136	135	135	135	637	650	661	671	677
\$5.....	2,246	2,618	3,161	3,614	3,718	3,841	3,905	4,190	4,393	4,549	4,635
\$10.....	6,691	7,794	9,170	10,226	10,503	10,777	10,775	11,361	11,661	11,894	11,924
\$20.....	10,536	13,369	18,581	23,915	26,197	28,344	29,987	33,233	36,045	38,613	40,739
Large currency.....	9,348	12,214	17,454	24,210	28,137	31,681	36,072	41,269	47,952	54,907	63,352
\$50.....	2,815	3,540	4,896	6,514	7,444	8,157	9,028	10,079	11,279	12,585	13,731
\$100.....	5,954	8,135	12,084	17,288	20,298	23,139	26,688	30,818	36,306	41,960	49,264
\$500.....	249	245	215	185	179	175	172	169	167	164	163
\$1,000.....	316	288	252	216	209	204	200	197	194	192	188
\$5,000.....	3	3	3	2	2	2	2	2	2	2	2
\$10,000.....	10	4	4	4	4	4	4	4	4	4	3

<sup>1</sup> Outside Treasury and Federal Reserve banks.

<sup>2</sup> Paper currency only; \$1 silver coins reported under coin.

Source: 1960-1973, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly; thereafter, U.S. Dept. of the Treasury, *Monthly Statement of United States Currency and Coin*, Form 1028.

## No. 870. BANK DEBITS AND DEPOSIT TURNOVER: 1970 TO 1981

[Annual averages of monthly data, except as indicated]

ITEM	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981, May <sup>1</sup>
Debits to demand deposits (tril. dol.):											
All commercial banks.....	11.3	15.0	18.9	22.9	25.0	29.2	34.4	40.3	49.8	63.0	74.8
Major New York City banks.....	4.0	5.5	6.8	8.4	9.7	11.5	13.9	15.0	18.5	25.2	29.6
Other banks.....	7.3	9.6	12.1	14.5	15.4	17.7	20.5	25.3	31.3	37.8	45.2
Demand deposit turnover rate: <sup>2</sup>											
All commercial banks.....	69.3	73.3	84.8	98.9	105.3	116.7	129.2	138.9	163.3	202.0	260.9
Major New York City banks.....	170.0	230.4	274.0	321.3	356.9	411.7	503.3	542.0	645.1	814.0	975.1
Other banks.....	47.0	52.8	61.2	70.5	72.9	79.7	85.9	96.7	113.3	134.5	176.3

<sup>1</sup> Seasonally adjusted. <sup>2</sup> Computed by dividing debits during a period (converted to an annual rate) by average deposits against which debits are made; indicates number of times a deposit dollar is used during the period.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## No. 871. MONEY STOCK MEASURES AND COMPONENTS: 1960 TO 1981

[In billions of dollars, except percent. As of December, except as indicated. Seasonally adjusted averages of daily figures. See *Historical Statistics, Colonial Times to 1970*, series X 410-417 for similar data.]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981, May
<b>Measures:</b>												
M1-A	142	169	216	266	277	290	308	331	355	373	388	365
M1-B	142	170	217	266	278	292	311	336	364	391	416	432
M2	312	458	626	880	908	1,024	1,169	1,298	1,404	1,525	1,669	1,743
M3	314	479	673	978	1,060	1,163	1,302	1,463	1,626	1,775	1,964	2,059
L	403	583	814	1,140	1,246	1,374	1,529	1,723	1,937	2,151	2,377	2,477
<b>Components:</b>												
Currency	29	36	49	62	68	74	81	89	97	106	116	120
Demand deposits	113	132	166	203	207	214	224	240	254	263	267	241
Traveler's checks	(Z)	1	1	2	2	2	3	3	4	4	4	4
Other checkable deposits	(Z)	(Z)	(Z)	1	1	2	3	5	9	18	28	57
Savings deposits	158	255	257	322	334	384	448	487	476	417	393	361
Small denomination time deposits	13	35	153	266	289	340	396	454	533	653	757	799
Large denomination time deposits	2	21	45	111	144	130	118	145	194	220	257	277
Short-term Treasury securities	37	41	49	50	54	77	81	90	100	129	161	156
Savings bonds	46	50	52	60	63	67	72	76	80	80	72	70
Money market mutual fund shares	(NA)	(NA)	(NA)	(Z)	2	4	3	4	10	44	76	118
Commercial paper	5	10	35	42	50	48	52	63	79	97	100	99
Bankers' acceptances	1	2	3	5	11	8	9	12	22	27	33	36
Term repurchase agreements (RP's)	(NA)	(NA)	1	7	8	9	15	21	28	30	37	38
Overnight repurchase agreements (RP's)	(NA)	(NA)	1	7	7	8	14	18	22	22	28	32
Term Eurodollars	1	2	2	5	8	10	13	19	30	43	48	57
Overnight Eurodollars	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	1	2	4	5	6
<b>Annual percent change:</b>												
M1-A	7	4.7	5.8	5.5	4.3	4.7	6.0	7.7	7.1	5.0	4.0	-1.5
M1-B	7	4.7	5.3	5.5	4.4	5.0	6.6	8.1	8.3	7.2	6.4	10.3
M2	4.9	8.1	6.4	7.0	5.6	12.8	14.2	10.9	8.3	8.6	9.5	11.1
M3	5.2	9.2	10.1	11.2	8.4	9.7	12.0	12.3	11.2	9.2	10.6	12.3
L	3.8	8.2	6.8	11.8	9.3	10.2	11.3	12.7	12.4	11.1	10.5	11.3

NA Not available. Z Less than \$500 million. <sup>1</sup> M1-A is currency plus demand deposits plus traveler's checks of nonbank issuers; M1-B is M1-A plus other checkable deposits at banks and thrift institutions; M2 is M1-B plus overnight RP's and Eurodollars, money market mutual fund shares, and savings and small time deposits at commercial banks and thrift institutions; M3 is M2 plus large time deposits and term RP's at commercial banks and thrift institutions; and L is M3 plus other liquid assets such as term Eurodollars, savings bonds, short-term Treasury securities, bankers' acceptances, and commercial paper. <sup>2</sup> Not seasonally adjusted. <sup>3</sup> Issued in amounts of less than \$100,000. <sup>4</sup> Issued in amounts of \$100,000 or more and are net of holdings of domestic banks, thrift institutions, the U.S. Government, money market mutual funds, and foreign banks and official institutions. <sup>5</sup> From previous year shown: for 1980, from 1959. For average annual percent change, see Guide to Tabular Presentation.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## No. 872. TIME AND SAVINGS DEPOSITS HELD BY INSURED COMMERCIAL BANKS—DEPOSITS AND INTEREST RATES: 1978 TO 1981

TYPE OF DEPOSIT, DENOMINATION, AND ORIGINAL MATURITY	DEPOSITS (bil. dol.)				TYPE OF DEPOSIT, DENOMINATION, AND ORIGINAL MATURITY	INTEREST RATES PAYABLE (percent)			
	1978, July	1979, July	1980, July	1981, April		1978, July	1979, July	1980, July	1981, April
Savings and time deposits <sup>1</sup>	576.4	625.1	685.2	772.8	Savings and small-denomination time deposits <sup>1</sup>	5.65	6.25	6.64	9.40
Savings	220.6	217.5	204.1	204.5	Savings	4.93	5.15	5.19	5.20
Interest-bearing time deposits, less than \$100,000 <sup>2</sup>	175.3	211.6	269.2	310.9	Interest-bearing time deposits, less than \$100,000 <sup>3</sup>	6.35	6.63	6.70	6.86
Other than domestic governmental units	163.2	140.3	92.2	68.7	Other than domestic governmental units	6.35	6.64	6.70	6.70
30 to 90 days <sup>4</sup>	5.4	2.8	11.6	1.1	14 to 90 days <sup>4</sup>	4.83	4.97	5.19	5.20
90 to 180 days	29.4	23.5	16.5	12.7	90 to 180 days <sup>4</sup>	5.47	5.48	5.64	5.67
180 days to 1 year	3.2	2.8	2.0	2.6	180 days to 1 year	5.49	5.47	5.61	5.58
1 to 2½ years	32.9	23.5	12.2	8.3	1 to 2½ years	5.99	5.89	5.98	5.98
2½ to 4 years	18.3	14.7	8.5	5.5	2½ to 4 years	6.49	6.46	6.47	6.46
4 to 6 years	50.9	46.0	30.6	22.2	4 to 6 years	7.22	7.26	7.22	7.22
6 to 8 years	21.7	23.8	18.4	14.1	6 to 8 years	7.48	7.49	7.48	7.48
8 years or more	1.4	3.2	2.5	2.2	8 years or more	7.61	7.69	7.67	7.65
IRA and Keogh Plans <sup>5</sup>	2.8	4.5	5.3	6.4	IRA and Keogh Plans <sup>5</sup>	7.62	7.86	8.43	10.16
Money market certificates <sup>4</sup>	5.4	64.2	147.9	199.4	Money market certificates <sup>4</sup>	7.42	9.25	8.18	14.24
Small saver certificates <sup>5</sup>	(X)	(X)	21.7	34.8	Small saver certificates <sup>5</sup>	(X)	9.17	11.72	
Interest-bearing time deposits, \$100,000 or more	174.0	189.3	205.4	251.4					

X Not applicable. <sup>1</sup> Includes types not shown separately. <sup>2</sup> Prior to Nov. 1980, 30 to 90 days. <sup>3</sup> Time deposits, 3 years or more. <sup>4</sup> \$10,000 or more, exactly 6 months. <sup>5</sup> 2½ year floating-rate certificates.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## No. 873. MONEY MARKET INTEREST RATES: 1960 TO 1981

[Percent per year. Annual averages of monthly data; except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series X 444-453]

TYPE	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981, Jan.- June <sup>1</sup>
Federal funds, effective rate .....	8.22	4.07	7.18	10.50	5.82	5.04	5.54	7.93	11.19	13.36	17.18
Commercial paper, 3-month <sup>2</sup> .....	(NA)	(NA)	10.01	6.25	5.24	5.55	7.94	10.97	12.66	15.74	
Prime rate charged by banks .....	4.82	4.54	7.91	10.81	7.86	6.84	6.82	9.06	12.67	15.27	19.07
Eurodollar deposits, 3-month .....	(NA)	(NA)	8.52	11.04	7.03	5.58	6.03	8.78	11.96	14.00	17.25
Finance paper, 3-month <sup>3</sup> .....	3.54	4.21	7.18	8.65	6.15	5.20	5.49	7.80	10.47	11.49	14.24
Bankers acceptances, 90-day <sup>4</sup> .....	3.51	4.22	7.31	9.89	6.29	5.19	5.60	8.11	11.04	12.78	15.75
Large negotiable certificates of deposit, 3-month, secondary market .....	(NA)	4.35	7.56	10.24	6.44	5.27	5.64	8.22	11.22	13.07	16.33
Federal Reserve discount rate <sup>5</sup> .....	3-4	4-4½	5½-6	7½-8	6-7¾	5¼-6	5¼-6	6-9½	9½-12	10-13	13-14
U.S. Government securities: <sup>6</sup>											
3-month Treasury bill .....	2.87	3.95	6.39	7.83	5.77	4.97	5.27	7.19	10.07	11.43	14.65
6-month Treasury bill .....	3.20	4.06	6.48	7.94	6.09	5.25	5.63	7.58	10.06	11.37	13.98
1-year Treasury bill .....	3.41	4.06	6.48	7.70	6.28	5.52	5.71	7.74	9.75	10.89	13.03
Prime 1-year municipals <sup>7</sup> .....	2.05	2.35	4.35	4.75	3.91	3.12	2.91	4.15	5.34	6.25	7.33

NA Not available. <sup>1</sup> Monthly average. <sup>2</sup> Averages of daily offering rates of dealers. <sup>3</sup> Placed directly; averages of daily offering rates quoted by finance companies. <sup>4</sup> Prior to Aug. 15, 1974, averages of the most representative daily offering rates of dealers; thereafter, averages of the midpoint of the range of daily dealer closing rates. <sup>5</sup> Federal Reserve Bank of New York, low and high. The discount rates for 1980 and 1981 do not include the surcharge applied to frequent borrowings by large institutions. The surcharge reached 3 percent in 1980 and 4 percent in 1981. <sup>6</sup> Averages based on daily closing bid yields in secondary market, bank discount basis. <sup>7</sup> Averages based on quotations for one day each month. Source: Salomon Brothers, New York, N.Y., *An Analytical Record of Yields and Yield Spreads*.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly, and *Annual Statistical Digest*.

## No. 874. FEDERAL RESERVE BANK OF NEW YORK—DISCOUNT RATES: 1971 TO 1981

[Percent per year. See also *Historical Statistics, Colonial Times to 1970*, series X 454-455]

EFFECTIVE DATE	RATE	EFFECTIVE DATE	RATE	EFFECTIVE DATE	RATE	EFFECTIVE DATE	RATE	EFFECTIVE DATE	RATE
1971: Jan. 8.....	5½	1973—Con.		1976: Jan. 19.....	5½	1978—Con.		1980—Con.	
Jan. 22.....	5	June 11.....	8½	Nov. 22.....	5½	Nov. 1.....	9½	Sept. 26....	11
Feb. 19.....	4%	July 2.....	7	1977: Aug. 31.....	5¾	1979: July 20.....	10	Nov. 17....	12
July 18.....	5	Aug. 14.....	7½	Oct. 26.....	6	Aug. 17.....	10½	Dec. 5....	13
Nov. 19.....	4½	1974: Apr. 25.....	8	1978: Jan. 9.....	6½	Sept. 19.....	11		
Dec. 17.....	4½	Dec. 9.....	7¾	May 11.....	7	Oct. 8.....	12		
1973: Jan. 15.....	5	1975: Jan. 10.....	7½	July 3.....	7½	1980: Feb. 15.....	13	1981: <sup>1</sup> May 5....	14
Feb. 26.....	5½	Feb. 5.....	6¾	Aug. 21.....	7%	May 30.....	12	In effect June	
May 4.....	5¾	Mar. 10.....	6½	Sept. 22.....	8	June 13.....	11	30, 1981.....	14
May 11.....	6	May 16.....	6	Oct. 18.....	8½	July 28.....	10		

<sup>1</sup> See table 873, footnote 5.

## No. 875. BANK EFFECTIVE INTEREST RATES FOR COMMERCIAL AND INDUSTRIAL LOANS, CONSTRUCTION AND LAND DEVELOPMENT LOANS, AND FARM LOANS, BY SIZE OF LOAN: 1980 AND 1981

[Represents loans made during the first full business week in May. Based on a stratified random sample of member banks of the Federal Reserve System and nonmember banks, totaling approximately 340 banks]

TYPE AND SIZE OF LOAN	AMOUNT (mil. dol.)		RATE (percent)		TYPE AND SIZE OF LOAN	AMOUNT (mil. dol.)		RATE (percent)	
	1980	1981	1980	1981		1980	1981	1980	1981
<b>Commercial and industrial loans:</b>									
Short-term .....	11,317	16,841	17.75	19.98	Construction and land development loans .....	1,111	875	18.32	19.07
\$1,000 to 24,999 .....	886	853	17.80	19.45	\$1,000 to \$24,999 .....	92	74	17.14	19.83
\$25,000 to \$49,999 .....	518	482	18.78	19.87	\$25,000 to \$49,999 .....	114	81	15.68	19.06
\$50,000 to \$99,999 .....	697	768	18.85	19.10	\$50,000 to \$99,999 .....	198	170	18.69	16.10
\$100,000 to \$499,999 .....	2,159	2,119	18.49	19.93	\$100,000 to \$499,999 .....	495	223	19.56	20.74
\$500,000 to \$999,999 .....	721	1,042	19.13	19.58	\$500,000 and over .....	211	326	16.99	19.35
\$1 million and over .....	6,336	11,578	17.10	20.14	Farm loans .....	1,211	1,419	17.38	17.88
Long-term .....	1,340	3,634	18.37	19.25	\$1,000 to \$9,999 .....	164	188	18.48	17.50
\$1,000 to \$99,999 .....	171	281	18.26	19.22	\$10,000 to \$24,999 .....	168	236	16.98	17.59
\$100,000 to \$499,999 .....	181	451	18.64	19.34	\$25,000 to \$49,999 .....	169	221	17.10	17.67
\$500,000 to \$999,999 .....	106	176	18.62	19.48	\$50,000 to \$99,999 .....	134	181	17.38	17.76
\$1 million and over .....	882	2,727	18.30	19.23	\$100,000 to \$249,999 .....	241	281	17.40	17.97
					\$250,000 and over .....	335	312	18.14	18.46

Source of tables 874 and 875: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## NO. 876. BOND YIELDS, STOCK YIELDS, AND MORTGAGE RATES: 1960 TO 1980

[Percent per year. Annual averages of monthly data, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series X 474-491.]

TYPE	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980
U.S. Treasury, constant maturities: <sup>1</sup>												
3-year.....	3.98	4.22	7.29	5.72	6.95	7.82	7.49	6.77	6.69	8.29	9.71	11.55
5-year.....	4.09	4.25	7.38	5.98	6.87	7.80	7.77	7.18	6.99	8.32	9.52	11.48
10-year.....	4.12	4.28	7.35	6.21	6.84	7.56	7.99	7.61	7.42	8.41	9.44	11.46
20-year.....	4.06	4.27	6.86	6.01	7.12	8.05	8.19	7.96	7.67	8.49	9.33	11.39
U.S. Govt., 3-5 year issues <sup>2</sup> .....	3.99	4.22	7.37	5.85	6.92	7.81	7.55	6.94	6.85	8.30	9.58	(NA)
U.S. Govt., long-term bonds <sup>3</sup> .....	4.01	4.21	6.59	5.63	6.30	6.99	6.98	6.78	7.06	7.89	8.74	10.81
State and local govt. bonds, Aaa <sup>4</sup> .....	3.26	3.16	6.12	5.04	4.98	5.89	6.42	5.66	5.20	5.52	5.89	7.84
State and local govt. bonds, Baa <sup>4</sup> .....	4.22	3.57	6.75	5.60	5.47	6.53	7.62	7.49	6.12	6.27	6.72	9.00
High-graded municipal bonds (Standard & Poor's) <sup>5</sup> .....	3.73	3.27	6.51	5.27	5.18	6.09	6.89	6.49	5.56	5.80	6.39	8.51
Municipal (Bond Buyer, 20 bonds).....	3.52	3.27	6.35	5.26	5.19	6.17	7.05	6.64	5.68	6.03	6.52	8.59
Corporate Aaa seasoned <sup>4</sup> .....	4.41	4.49	8.04	7.21	7.44	8.57	8.83	8.43	8.02	8.73	9.63	11.94
Corporate Baa seasoned <sup>4</sup> .....	5.19	4.87	9.11	8.16	8.24	9.50	10.61	9.75	8.97	9.49	10.69	13.67
Corporate Aaa utility bonds <sup>6</sup> .....	4.73	4.57	8.72	7.37	7.67	9.01	9.17	8.46	8.12	8.90	9.92	12.68
Corporate, by years to maturity: <sup>7</sup>												
5 years.....	4.73	4.29	8.10	6.50	6.85	7.47	7.70	7.96	7.25	7.75	9.40	12.00
10 years.....	4.60	4.33	8.00	7.05	7.05	7.67	8.00	8.18	7.60	7.88	9.35	12.40
20 years.....	4.55	4.35	7.60	7.05	7.20	7.80	8.35	8.30	7.75	8.20	9.08	12.30
30 years.....	4.55	4.37	7.60	7.01	7.20	7.80	8.35	8.30	7.95	8.25	9.10	12.30
Corporate (Moody's).....	4.73	4.64	8.51	7.63	7.80	9.03	9.57	9.01	8.43	9.07	10.12	12.75
Industrials (40 bonds) <sup>8</sup> .....	4.59	4.61	8.26	7.35	7.60	8.78	9.25	8.84	8.28	8.90	9.85	12.35
Railroads (24 bonds).....	4.92	4.72	8.77	7.89	8.12	8.98	9.39	8.85	8.13	8.64	9.60	11.48
Public utilities (40 bonds).....	4.69	4.60	8.68	7.74	7.83	9.27	9.88	9.17	8.58	9.22	10.30	13.15
Stocks (Standard & Poor's): <sup>9</sup>												
Preferred (10 stocks) <sup>8</sup> .....	4.75	4.33	7.22	6.88	7.23	8.24	8.36	7.98	7.61	8.25	9.11	10.60
Common: Composite (500 stocks).....	3.47	3.00	3.83	2.84	3.06	4.47	4.31	3.77	4.62	5.28	5.47	5.26
Industrial (400 stocks).....	3.36	2.94	3.62	2.61	2.79	4.13	3.96	3.48	4.43	5.06	5.20	4.95
Home mortgages: <sup>10</sup>												
FHA insured, secondary market.....	6.16	5.47	9.03	7.53	8.19	9.55	9.19	8.82	8.68	9.70	10.87	14.76
Conventional, new-home <sup>10</sup> .....	(NA)	5.83	8.52	7.64	8.30	9.22	9.10	8.99	8.95	9.68	11.15	13.95
Conventional, existing-home <sup>10</sup> .....	(NA)	5.89	8.56	7.70	8.33	9.23	9.14	9.04	9.00	9.70	11.16	13.95

NA. Not available. <sup>1</sup> Yields on the more actively traded issues adjusted to constant maturities by the U.S. Treasury, based on daily closing bid prices. <sup>2</sup> Unweighted averages for all outstanding notes and bonds in maturity ranges shown, based on daily closing bid prices. <sup>3</sup> Includes all bonds neither due nor callable in less than 10 years. <sup>4</sup> Source: Moody's Investors Service, New York, N.Y. <sup>5</sup> Source: Standard & Poor's Corp., New York, N.Y., *Standard & Poor's Outlook*, weekly. <sup>6</sup> Averages based on first trading day of each month, deferred call, new issue estimate. Source: Salomon Brothers, New York, N.Y., *An Analytical Record of Yields and Yield Spreads*. <sup>7</sup> Source: Scudder, Stevens & Clark, New York, N.Y., unpublished data. <sup>8</sup> Prior to Sept. 9, 1965, yields based on 14 stocks, 8 yields; thereafter, 10 stocks, 4 yields. Issues converted to a price equivalent to \$100 par and a 7 percent annual dividend before averaging. <sup>9</sup> Averages based on quotations for 1 day each month as compiled by FHA. <sup>10</sup> Primary market.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

## NO. 877. SALES OF STOCKS AND OPTIONS ON REGISTERED EXCHANGES: 1960 TO 1980

[See also *Historical Statistics, Colonial Times to 1970*, series X 517-530]

EXCHANGE	Unit	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
ALL EXCHANGES												
Market value, all sales <sup>1</sup> .....	Bil. dol.	47	93	136	187	125	167	203	198	269	323	522
Stocks: <sup>2</sup> Market value.....	Bil. dol.	45	89	131	179	118	157	195	187	249	300	476
Shares.....	Million.....	1,369	2,587	4,539	5,723	4,846	6,231	7,036	7,023	9,483	10,850	15,486
Options: Market value.....	Mil. dol.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	11,734	31	19,703	22,860	45,789
Contracts.....	Million.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	31	39	60	64	97
Rights and warrants:												
Market value.....	Mil. dol.....	75	305	576	984	394	294	256	190	345	754	567
Number of units.....	Million.....	51	82	295	176	104	150	90	112	82	115	98
Option exercises: Value.....	Mil. dol.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	2,872	1	3,696	5,382	10,863
Shares.....	Million.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	1	1	2	2	5
NEW YORK STOCK EXCHANGE												
Market value, all sales <sup>1</sup> .....	Bil. dol.	40	77	108	155	106	143	165	157	211	252	398
Stocks: <sup>2</sup> Market value.....	Bil. dol.	38	73	103	146	99	134	165	157	210	251	398
Shares.....	Million.....	958	1,809	3,213	4,337	3,822	5,056	5,649	5,613	7,617	8,675	12,390
Rights and warrants:												
Market value.....	Mil. dol.....	13	34	267	348	192	168	133	89	124	484	398
Number of units.....	Million.....	29	58	233	84	63	108	53	62	42	84	71
Sales by size: <sup>3</sup>												
At 100 shares.....	Percent.....	(NA)	(NA)	51.7	46.4	45.3	41.4	38.1	35.8	32.9	31.6	31.0
At 200-900 shares.....	Percent.....	(NA)	(NA)	40.7	44.5	45.7	47.8	49.2	49.7	50.1	49.8	49.1
At 1,000 shares and over.....	Percent.....	(NA)	(NA)	6.4	8.1	9.0	10.8	12.7	14.8	17.0	18.6	19.9

NA. Not available. <sup>1</sup> Includes bond sales through 1975, not shown separately. <sup>2</sup> Includes voting trust certificates, American depository receipts, and certificates of deposit for stocks. <sup>3</sup> Sales printed on New York Stock Exchange. Source: New York Stock Exchange, Inc., New York, N.Y., *Fact Book*, annual.

Source: Except as noted, U.S. Securities and Exchange Commission. Monthly data in *SEC Monthly Statistical Review*.

## Banking, Finance, and Insurance

## NO. 878. SECURITY PRICES AND VOLUME OF TRADING: 1960 TO 1980

[Annual averages of monthly figures, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series X 482-498]

CLASS OR ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
<b>Bond prices (dollars per \$100 bond):</b>											
U.S. Government, long term <sup>1</sup>	86.22	83.76	60.52	62.80	57.45	57.44	58.98	56.89	51.26	47.8	(X)
Standard & Poor's: Municipal <sup>2</sup>	103.9	110.6	72.3	85.4	76.3	68.9	72.5	81.3	77.9	73.4	57.4
Corporate AAA <sup>3</sup>	94.6	93.9	61.6	63.7	58.8	56.2	58.0	59.6	55.6	51.1	41.4
<b>Stock prices:</b>											
Standard & Poor's common Index (500 stocks) (1941-43=10) <sup>4</sup>	55.9	88.2	83.2	107.4	82.8	86.1	102.0	98.2	96.0	102.8	118.8
Industrial	59.4	93.5	91.3	120.4	92.9	96.6	114.4	108.4	106.3	114.8	134.5
N.Y. Stock Exchange common stock index (Dec. 31, 1965=50), composite	30.0	47.4	45.7	57.4	43.8	45.7	54.5	53.7	53.7	58.3	60.1
Industrial	(NA)	(NA)	48.0	63.1	48.1	50.5	60.4	57.8	58.3	64.8	78.7
Transportation	(NA)	(NA)	32.1	37.7	31.9	31.1	39.6	41.1	43.3	47.3	60.6
Utility	(NA)	(NA)	37.2	37.7	29.8	31.5	37.0	40.9	39.2	38.2	37.3
Finance	(NA)	(NA)	54.6	70.1	49.7	47.1	52.9	55.2	56.7	61.4	64.2
American Stock Exchange Market Value Index (Aug. 31, 1973=100)	(NA)	(NA)	96.83	103.80	79.97	83.06	101.63	116.18	144.37	195.53	301.01
Dow-Jones and Co., Inc., total (65 stocks) <sup>5</sup>	204.6	318.5	243.9	286.7	237.3	247.3	303.9	301.7	283.6	293.5	328.2
Industrial (90 stocks)	618.0	910.9	753.2	923.8	759.8	802.8	974.9	894.6	820.2	844.4	891.4
Transportation (20 stocks)	138.9	216.4	152.4	180.6	164.1	163.4	214.0	225.2	222.6	237.8	307.2
Public utility (15 stocks)	91.4	157.9	108.8	103.4	75.8	79.8	92.3	111.0	104.6	104.6	110.4
Standard & Poor's:											
Dividend-price ratio (percent)	(NA)	(NA)	3.83	3.06	4.47	4.31	3.77	4.62	5.28	5.46	5.26
Earnings-price ratio (percent)	(NA)	(NA)	6.45	7.12	11.80	9.14	8.90	10.80	11.96	13.46	12.67
<b>Volume of trading:</b>											
Value, NYSE <sup>6</sup> (bil. dol.)	(NA)	(NA)	95.3	137.3	92.1	126.7	159.8	150.2	199.9	236.2	374.9
Average daily shares:											
NYSE <sup>6</sup> (mil.)	3.0	6.2	11.6	16.1	13.9	18.6	21.2	20.9	28.6	32.2	44.9
ASE <sup>7</sup> (1,000)	1,113	2,120	3,819	3,015	1,906	2,138	2,562	2,592	3,923	4,349	6,427

NA Not available. X Not applicable. <sup>1</sup> Derived from long-term yield on basis of assumed 3 percent, 20-year bond; series discontinued by Board of Governors Oct. 1979. <sup>2</sup> Jan.-Sept. <sup>3</sup> Derived from average yields on basis of assumed 4 percent, 20-year bond; Wednesday closing prices. <sup>4</sup> Effective July 1976, the Index includes 400 industrial stocks (formerly 425), 20 transportation (formerly 15 rail), 40 public utility (formerly 60), and 40 financial stocks, not previously covered. <sup>5</sup> Source: U.S. Bureau of Economic Analysis. Based on stocks listed on the New York Stock Exchange. <sup>6</sup> Source: New York Stock Exchange, Inc., New York, N.Y., *Fact Book*, annual. <sup>7</sup> Source: American Stock Exchange, unpublished data.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

NO. 879. NEW CORPORATE SECURITIES OFFERED FOR SALE, BY TYPE OF SECURITY AND ISSUER:  
1960 TO 1980

[In millions of dollars. Estimated gross proceeds derived by multiplying principal amounts or number of units by offering prices. Covers substantially all new securities offered for cash sale in U.S. in amounts over \$100,000 and with terms of maturity of more than 1 year. Included are some unregistered securities offered privately for sale mainly to insurance companies as well as securities registered with the Securities and Exchange Commission under the terms of the Securities Act of 1933. See table 485 for new issues of State and local government securities. See also *Historical Statistics, Colonial Times to 1970*, series X 499-500 and X 505-506.]

SECURITY AND ISSUER	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
<b>Total</b>	10,154	14,782	37,451	31,880	37,729	52,538	52,290	51,836	46,616	53,086	78,349
Publicly offered	6,857	6,486	32,524	22,903	31,028	41,750	35,910	32,211	28,398	37,014	66,024
Bonds and notes	4,806	4,888	24,365	12,899	25,395	31,492	25,263	21,929	18,881	28,468	44,110
Preferred stock	220	360	1,310	2,398	1,745	3,088	2,953	2,421	1,759	1,965	3,195
Common stock	1,631	1,438	6,849	7,606	3,947	7,179	8,296	7,857	7,760	8,581	18,717
Privately placed	3,487	8,296	4,926	8,781	6,701	10,779	16,984	19,628	18,218	16,072	12,328
Bonds and notes	3,275	7,897	4,658	7,778	6,160	10,172	15,927	17,943	16,964	14,383	11,612
Preferred stock	188	364	80	944	511	371	451	1,495	1,077	1,562	439
Common stock	33	35	188	37	28	235	9	188	178	127	279
Issuer:											
Manufacturing	2,152	5,414	10,647	4,832	10,408	18,651	15,493	13,754	11,062	11,562	24,398
Extractive	246	341	1,812	1,060	970	1,828	1,762	2,682	3,100	3,192	4,816
Electric, gas, water	2,851	2,934	11,000	10,268	12,837	15,894	14,415	13,705	12,253	13,736	15,940
Communication	1,050	945	5,291	4,872	3,930	4,464	3,562	4,442	3,640	4,694	6,845
Transportation	718	702	1,253	811	1,005	2,635	3,626	1,802	1,763	3,296	3,745
Financial and real estate	2,525	3,986	5,112	8,089	6,779	6,838	10,282	11,690	10,861	12,866	15,638
Commercial and other	612	1,060	2,328	1,748	1,802	2,429	3,148	3,764	3,939	3,744	6,966

Source: U.S. Securities and Exchange Commission, *SEC Monthly Statistical Review*.

## NO. 880. SECURITIES LISTED ON N.Y. STOCK EXCHANGE: 1960 TO 1980

[As of December 31. NA Not available]

ITEM	Unit	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980
Bonds:													
Face value.....	Bil. dol.....	116	142	135	142	142	291	334	401	497	509	526	602
Market value.....	Bil. dol.....	108	132	113	128	121	255	315	402	480	465	460	508
Average price.....	Dollars.....	93.21	93.07	83.60	90.40	85.16	87.68	91.89	100.39	96.52	91.37	87.36	84.41
Stocks:													
Shares.....	Billion .....	6.5	10.1	16.1	21.7	22.5	24.5	28.1	27.6	30.0	33.7		
Market value.....	Bil. dol.....	307	537	636	872	721	511	685	858	797	823	991	1,243
Average price.....	Dollars.....	47.53	53.44	39.61	45.49	34.39	23.51	30.48	35.03	30.53	29.84	31.99	36.87
Cash dividends on common stock.....	Bil. dol.....	9.9	15.3	19.8	21.5	23.6	25.7	26.9	30.6	36.3	41.2	46.9	53.1
Industrial.....	Bil. dol.....	(NA)	11.0	13.6	14.3	15.5	17.0	17.6	20.2	23.9	26.6	30.3	34.5
Transportation.....	Bil. dol.....	(NA)	6	5	5	5	6	6	8	8	9	1.0	1.2
Utilities.....	Bil. dol.....	(NA)	3.3	4.5	5.1	5.5	6.0	6.7	7.7	9.0	10.7	12.2	13.3
Finance.....	Bil. dol.....	(NA)	.5	1.1	1.6	2.1	2.1	1.9	2.1	2.6	2.9	3.5	4.2

Source: New York Stock Exchange, Inc., New York, N.Y., *Fact Book*, annual.

## NO. 881. STOCK OWNERSHIP—CHARACTERISTICS OF SHAREOWNERS: 1959 TO 1980

[In thousands. Includes outlying areas, most members of the Armed Forces, citizens living abroad, and, except for income, minor children. Represents all publicly owned issues of common and preferred stocks. Based on national probability samples; see source for detailed explanation.]

CHARACTERISTIC	1959	1965	1970	1975	1980	CHARACTERISTIC	1959	1965	1970	1975	1980
Total <sup>1</sup> .....	12,490	20,120	30,850	25,270	29,840	Income: <sup>4</sup>					
Male.....	5,740	9,080	15,689	12,698	15,479	Under \$5,000.....	3,518	2,977	2,389	780	241
Female.....	6,347	9,430	15,161	12,508	14,361	\$5,000-\$9,999.....	5,826	7,100	5,779	2,636	1,480
Age:						\$10,000-\$14,999.....	1,741	4,862	8,346	4,552	3,142
Under 21 years.....	197	1,280	2,221	1,818	2,280	\$15,000-\$24,999.....	688	2,477	7,670	8,778	6,648
21-34 years.....	2,444	2,626	4,500	2,838	6,331	\$25,000-\$49,999.....	314	1,073	4,114	5,426	11,484
35-44 years.....	2,084	4,216	5,801	3,978	5,854	\$50,000 and over.....				1,216	3,935
45-54 years.....	2,800	4,752	7,556	5,675	5,391	Residence by SMSA size: <sup>5</sup>					
55-64 years.....	2,666	3,549	6,084	5,099	5,083	Under 100,000.....	(NA)	134	175	328	207
65 years and over.....	2,113	3,347	4,330	5,800	4,534	100,000-249,999.....	(NA)	1,254	2,245	2,059	1,924
Education:						250,000-499,999.....	(NA)	1,897	2,686	2,691	2,949
High school: <sup>2</sup>	2,804	3,106	3,566	1,621	1,725	500,000-999,999.....	(NA)	2,156	3,712	3,257	4,396
3 years or less.....	2,804	5,344	8,697	6,580	5,669	1,000,000 and over.....	(NA)	9,983	14,881	11,893	15,632
4 years.....	3,130					Nonmetropolitan areas.....	(NA)	4,639	6,913	4,978	4,732
College: <sup>2</sup>											
1-3 years.....	2,587	4,012	5,867	5,301	9,243						
4 years or more....	3,566	6,028	9,999	9,886	10,486						
Minors <sup>3</sup> .....	197	1,280	2,221	1,818	2,280						

NA Not available. <sup>1</sup> Includes small number of shareowners not distributed by breakdown. <sup>2</sup> Persons 21 years old and over. <sup>3</sup> Shareowners whose stockholdings are registered in accordance with the Gifts to Minors Statutes. <sup>4</sup> Adult shareowners only. <sup>5</sup> SMSA=Standard metropolitan statistical area. For definition, see Appendix II.

Source: New York Stock Exchange, Inc., New York, N.Y., *Shareownership*, 1959, 1965, 1970, 1975, and 1980.

## NO. 882. COMMODITY FUTURES TRADING ON U.S. EXCHANGES—VOLUME OF TRADING: 1960 TO 1980

[In thousands. Prior to 1972, for years ending June 30; thereafter, for years ending December 31]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980
Number of contracts traded.....	3,878	8,423	13,356	18,332	25,826	27,733	32,200	36,876	42,847	58,462	75,966	92,096
Grains and feeds <sup>1</sup> .....	2,411	5,697	5,977	8,037	9,997	13,420	14,595	17,261	19,668	22,385	27,695	36,337
Livestock and meat <sup>2</sup> .....	8	778	2,574	4,005	5,119	4,629	5,680	5,825	5,666	9,680	11,802	11,639
Foods <sup>3</sup> .....	1,289	1,722	3,458	3,189	4,949	4,154	3,692	3,868	5,161	5,149	5,925	8,659
Raw materials <sup>4</sup> .....	189	208	351	917	1,514	1,465	1,609	2,776	2,753	3,399	4,618	5,598
Precious metals <sup>5</sup> .....	(2)	17	995	2,015	3,820	3,826	6,376	7,209	8,232	13,983	17,998	13,171
Financial instruments <sup>6</sup> .....	-	-	-	425	241	-	20	239	780	2,325	5,607	12,489
Currencies <sup>7</sup> .....	-	-	1	169	-	-	228	198	586	1,561	2,222	4,223

<sup>1</sup> Represents zero. <sup>2</sup> Less than 500. <sup>3</sup> Wheat, corn, oats, rye, soybeans, soybean meal, sunflower seeds, and grain sorghums. <sup>4</sup> Cattle, feeder cattle, hogs, pork bellies, imported lean beef, broilers, and turkeys. <sup>5</sup> Eggs, potatoes, coffee, cocoa, sugar, butter, orange juice, and edible oils. <sup>6</sup> Lumber, stud lumber, plywood, cotton, wool, oil and petroleum products, copper, lead, mercury, zinc, nickel, rubber, and tin. <sup>7</sup> Gold, silver, silver coins, platinum, and palladium. <sup>8</sup> GNMA certificates, treasury bills, bonds, and notes; and commercial paper. <sup>9</sup> Italian lira, Canadian dollars, French francs, Deutsche marks, Dutch guilders, British pounds, Japanese yen, Swiss francs, Belgian francs, and Mexican pesos.

Source: U.S. Commodity Futures Trading Commission, *Annual Report*. Data from Futures Industry Association, Washington, D.C.

## NO. 883. MUTUAL FUNDS—NET ASSETS, SALES, AND REDEMPTIONS: 1960 TO 1980

[In billions of dollars, except number of funds. See also *Historical Statistics, Colonial Times to 1970*, series X 536-539]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980
Number of funds.....	161	170	361	410	421	431	426	452	477	505	524	564
Assets <sup>1</sup> .....	17.0	35.2	47.6	59.8	46.5	35.8	45.8	51.0	48.5	55.8	94.5	134.7
Money market funds.....	(X)	(X)	(X)	(X)	(X)	1.7	3.6	3.4	3.5	10.9	45.2	74.4
Equity funds.....	16.8	32.8	45.1	55.9	43.0	30.9	37.5	39.2	34.1	32.7	35.9	44.4
Income and bond funds.....	.2	2.5	2.5	3.9	3.5	3.2	4.7	7.8	8.4	9.3	10.1	11.1
Municipal bond funds.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	.5	2.3	2.6	3.0	2.9
Sales <sup>1</sup> .....	2.1	4.4	4.6	4.9	4.4	5.3	10.1	13.7	17.1	37.2	119.3	247.5
Money market funds.....	(X)	(X)	(X)	(X)	(X)	2.2	6.8	9.4	10.7	30.5	111.9	232.2
Equity funds.....	1.9	3.9	4.2	4.3	3.9	2.6	2.6	2.7	2.4	2.8	3.1	5.6
Income and bond funds.....	.2	.4	.4	.6	.5	.5	.7	1.2	1.6	2.0	2.0	2.6
Municipal bond funds.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	.5	2.1	1.8	1.7	1.8
Redemptions <sup>1</sup> .....	.8	2.0	3.0	6.6	5.7	3.9	9.6	16.4	16.7	31.5	86.8	216.5
Money market funds.....	(X)	(X)	(X)	(X)	(X)	.6	5.9	9.6	10.7	24.3	78.4	204.5
Equity funds.....	.8	1.8	2.8	6.2	5.2	3.0	3.3	6.0	4.7	8.1	5.7	5.7
Income and bond funds.....	.1	.2	.2	.4	.4	.3	.4	.8	.8	1.0	1.4	1.5
Municipal bond funds.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(Z)	.5	1.1	.9	1.0

X Not applicable. Z Less than \$50 million. <sup>1</sup> Includes funds not shown separately.Source: Investment Company Institute, Washington, D.C., *Mutual Fund Fact Book*, annual.

## NO. 884. U.S. LIFE INSURANCE COMPANIES—SUMMARY: 1960 TO 1980

[As of December 31 or calendar years as applicable. Covers domestic and foreign business of U.S. companies. See also *Historical Statistics, Colonial Times to 1970*, series X 879 and X 890-907]

ITEM	Unit	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
U.S. companies.....												
Sales <sup>1</sup> .....	Number	1,441	1,629	1,780	1,766	1,757	1,746	1,742	1,789	1,840	1,895	1,948
Bill. dol.	78.4	149.8	206.8	250.6	323.5	316.5	352.2	407.7	437.8	526.8	596.7	
Ordinary	Bill. dol.	56.2	89.8	134.8	175.6	199.0	207.1	233.6	277.3	304.2	359.1	412.0
Group <sup>1</sup>	Bill. dol.	15.3	52.8	65.4	67.7	117.8	102.7	112.2	123.8	127.7	162.4	181.4
Industrial	Bill. dol.	6.9	7.3	6.6	7.2	6.7	6.7	6.4	6.5	6.0	5.9	3.3
Voluntary termination, ordinary policies: <sup>2</sup>												
All policies in force in U.S. ....	Rate	5.2	5.1	5.8	6.3	6.5	6.7	6.6	6.6	6.6	7.2	8.1
In force 2 years or more	Rate	3.7	3.5	3.9	4.3	4.5	4.5	4.6	4.7	4.6	5.1	5.8
Income.....	Bill. dol.	23.0	33.2	49.1	64.8	70.0	78.0	88.6	98.0	108.2	119.1	132.5
Life insurance premiums .....	Bill. dol.	12.0	16.1	21.7	26.4	27.8	29.3	31.4	33.8	36.8	39.1	40.8
Percent of total.....	Percent	52.2	48.5	44.2	40.7	39.7	37.6	35.4	34.5	33.8	32.8	30.8
Annuity considerations.....	Bill. dol.	1.3	2.2	3.7	6.8	7.7	10.2	14.0	15.0	16.3	17.9	24.0
Health insurance premiums .....	Bill. dol.	4.0	6.3	11.4	15.5	17.1	19.1	21.1	23.6	25.8	27.9	29.4
Investment and other.....	Bill. dol.	5.6	8.6	12.3	16.1	17.4	19.4	22.2	25.7	29.4	34.2	38.3
Disbursements.....	Bill. dol.	17.5	25.2	39.0	49.4	53.3	58.2	63.0	69.0	72.6	81.1	89.8
Payments to policyholders <sup>3</sup> .....	Bill. dol.	11.4	16.5	25.6	32.1	34.7	38.1	41.0	44.4	47.8	53.7	60.6
Percent of total.....	Percent	65.1	65.5	65.6	65.0	65.1	65.5	65.1	64.3	55.8	58.2	57.5
Death payments.....	Bill. dol.	3.4	4.9	7.2	8.6	8.9	9.3	9.7	10.2	11.1	11.8	12.9
Matured endowments .....	Bill. dol.	.7	1.0	1.0	1.0	1.0	1.0	1.0	.9	.9	.9	.8
Annuity payments.....	Bill. dol.	.7	1.0	1.7	2.6	2.9	3.2	3.9	4.6	5.1	6.6	9.0
Policy dividends.....	Bill. dol.	1.9	2.8	3.8	4.6	4.8	5.1	5.8	6.3	6.8	7.6	8.1
Surrender values.....	Bill. dol.	1.7	2.0	2.9	3.4	3.7	3.8	4.2	4.3	4.5	5.5	6.4
Disability benefits.....	Bill. dol.	.1	.2	.2	.4	.4	.4	.5	.5	.5	.6	.5
Commissions, expenses, etc .....	Bill. dol.	5.8	8.4	12.9	16.6	17.9	19.4	21.3	23.9	23.7	25.9	27.8
Dividends to stockholders.....	Bill. dol.	.2	.2	.5	.7	.7	.7	.7	.8	1.1	1.5	1.4
Taxes, licenses and fees .....	Bill. dol.	.9	1.4	2.2	3.2	3.4	3.5	4.0	4.4	5.1	5.5	4.8
Federal income taxes .....	Bill. dol.	.5	.7	1.2	1.8	1.9	1.9	2.2	2.5	3.0	3.3	2.6
Employed in insurance <sup>4</sup> .....	1,000	1,105	1,225	1,460	1,575	1,620	1,640	1,675	1,690	1,776	1,839	1,895

<sup>1</sup> Includes servicemen's group life insurance of \$27.4 billion in 1965, \$16.8 billion in 1970, \$28.8 billion in 1974, and \$1.7 billion in 1976. <sup>2</sup> Rate is ratio of number of policies lapsed or surrendered (for cash, extended term), less reinstatements, to mean number of policies in force. Includes foreign companies policies, primarily Canadian. <sup>3</sup> Includes operations of accident and health departments of life insurance companies, not shown separately. <sup>4</sup> Includes life, health, and property/casualty insurance.Source: American Council of Life Insurance, Washington, D.C. Based on data from *Life Insurance Fact Book*, and unpublished data.

# Life Insurance

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## No. 885. LIFE INSURANCE IN FORCE IN THE U.S.—SUMMARY: 1950 TO 1980

[As of December 31 or calendar years, as applicable. Prior to 1960, excludes Alaska and Hawaii. Covers life insurance with life insurance companies only. Represents all life insurance in force on lives of U.S. residents whether issued by U.S. or foreign companies. "Families" includes families, subfamilies, and unrelated individuals; see definitions, p. 1. See also *Historical Statistics, Colonial Times to 1970*, series X 879-889.]

YEAR	LIFE INSURANCE IN FORCE					COVERAGE (\$1,000)		Disposable personal income per family (\$1,000)	AVERAGE SIZE POLICY IN FORCE (dollars)				
	All policies, number (mil.)	Value (bil. dol.)				Per family	Per insured family		Ordinary	Group	Industrial	Credit	
		Total	Ordinary	Group	Industrial								
1950	202	234	149	48	33.4	3.9	4.6	6.0	4.1	2,320	2,480	310	360
1955	252	372	217	101	39.7	14.8	6.9	8.7	5.1	2,720	3,290	350	520
1960	282	566	340	175	39.6	31.2	10.2	12.7	6.1	3,360	4,030	390	680
1965	320	901	498	306	39.8	57.0	14.6	17.8	7.7	4,660	5,060	450	850
1970	355	1,402	731	545	38.6	87.9	20.7	24.4	10.3	6,110	6,910	500	1,000
1971	357	1,503	788	581	39.2	95.0	21.7	25.5	10.8	6,440	7,170	520	1,080
1972	365	1,628	849	631	40.0	108.8	22.9	26.9	11.4	6,790	7,790	530	1,190
1973	369	1,778	928	708	40.6	101.2	24.4	28.8	12.8	7,230	8,010	540	1,300
1974	380	1,985	1,009	827	39.4	109.6	26.5	31.2	13.3	7,690	8,840	550	1,310
1975	380	2,140	1,083	905	39.4	112.0	28.1	33.0	14.4	8,090	9,380	570	1,410
1976	382	2,343	1,178	1,003	39.2	123.6	30.1	35.0	15.3	8,610	10,010	580	1,580
1977	390	2,583	1,289	1,115	39.0	139.4	32.4	37.7	16.5	9,240	10,550	590	1,760
1978	401	2,870	1,425	1,244	38.1	163.1	35.1	40.8	17.9	10,010	11,260	600	1,950
1979	407	3,222	1,586	1,419	37.8	179.3	38.5	44.8	19.6	10,890	12,350	610	2,120
1980	402	3,541	1,761	1,579	36.0	165.2	41.5	48.3	21.4	11,920	13,410	620	2,110

<sup>1</sup> Insures borrower to cover loan in case of death. <sup>2</sup> For disposable personal income, see tables 701 and 713.

Source: American Council of Life Insurance, Washington, D.C., *Life Insurance Fact Book*, annual.

## No. 886. LIFE INSURANCE—INSURANCE IN FORCE AND BENEFIT PAYMENTS STATE: 1980

[Applies to policyholders and payments in the U.S.]

STATE	INSURANCE IN FORCE			Benefit payments (mil. dol.)	STATE	INSURANCE IN FORCE			Benefit payments (mil. dol.)
	Policies (1,000)	Value (bil. dol.)	Avg. per family (dol.)			Policies (1,000)	Value (bil. dol.)	Avg. per family (dol.)	
U.S.	401,628	3,541.0	41,500	38,042.1	Mo.	8,733	75.2	39,500	752.5
Ala.	12,331	55.5	39,500	485.2	Mont.	1,140	10.3	34,900	107.1
Alaska	615	7.4	50,100	47.7	Nebr.	2,744	27.1	45,500	286.0
Ariz.	4,867	38.4	38,200	442.5	Nev.	1,484	14.1	43,600	109.3
Ark.	2,777	24.3	28,300	218.7	N.H.	1,608	14.3	42,100	148.4
Calif.	30,699	355.4	37,000	3,924.0	N.J.	12,236	134.3	49,300	1,755.3
Colo.	4,873	52.1	46,700	458.8	N. Mex.	1,881	17.1	38,600	155.9
Conn.	5,908	62.5	55,100	779.9	N.Y.	26,888	281.1	41,200	3,837.7
Del.	1,598	13.0	59,600	121.7	N.C.	12,578	82.5	38,500	738.1
D.C.	2,504	22.2	73,200	154.2	N. Dak.	1,040	10.5	45,200	91.4
Fla.	16,441	127.8	92,100	1,789.2	Ohio	20,517	180.3	45,800	2,121.0
Ga.	12,814	88.2	44,200	737.7	Oklahoma	4,383	42.8	36,100	413.8
Hawaii	1,771	18.8	53,100	178.8	Oreg.	3,393	38.2	36,700	405.5
Idaho	1,359	12.6	37,000	117.2	Pa.	23,935	184.4	41,500	2,260.5
Ill.	22,198	207.7	48,500	2,298.8	R.I.	1,851	15.9	44,900	190.1
Ind.	10,305	87.5	43,800	897.8	S.C.	7,781	43.0	39,600	355.3
Iowa	5,023	48.0	44,200	545.1	S. Dak.	1,029	9.8	39,100	90.2
Kans.	4,253	38.9	42,600	378.0	Tenn.	9,480	66.7	39,500	612.8
Ky.	6,324	44.4	38,000	388.3	Tex.	25,207	226.1	43,200	2,119.0
La.	9,801	63.3	43,100	528.1	Utah	2,200	18.9	38,400	170.6
Maine	1,792	13.6	32,400	178.4	Vt.	817	6.7	35,800	87.8
Md.	7,926	66.2	42,300	709.0	Va.	10,606	83.3	41,300	765.7
Mass.	9,151	89.3	42,000	1,097.8	Wash.	5,522	58.9	36,300	612.3
Mich.	16,711	163.3	49,400	1,579.8	W. Va.	3,307	22.9	31,500	270.8
Minn.	6,538	68.2	45,900	661.7	Wis.	7,835	72.8	43,000	810.0
Miss.	4,076	27.8	31,800	205.3	Wyo.	576	7.0	38,900	60.3

<sup>1</sup> Comprises death payments, matured endowments, disability and annuity payments, surrender values, and policy dividends.

<sup>2</sup> As of mid-year. <sup>3</sup> Includes industrial and credit insurance, not shown separately.

Source: American Council of Life Insurance, Washington, D.C., *Life Insurance Fact Book*, annual.

## Banking, Finance, and Insurance

## No. 887. U.S. LIFE INSURANCE COMPANIES—FINANCIAL ITEMS: 1960 TO 1980

[In billions of dollars, except percent. As of December 31. See also *Historical Statistics, Colonial Times to 1970*, series X 908-917.]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980
<b>Assets</b>	<b>119.6</b>	<b>158.9</b>	<b>207.3</b>	<b>239.7</b>	<b>252.4</b>	<b>263.3</b>	<b>289.3</b>	<b>321.6</b>	<b>351.6</b>	<b>390.0</b>	<b>432.3</b>	<b>479.2</b>
Government securities	11.8	11.9	11.1	11.4	11.4	12.0	15.2	20.3	23.6	26.6	29.7	33.0
Corporate securities	51.7	67.4	88.5	113.0	117.7	118.6	133.9	154.9	171.7	191.6	208.8	227.0
Percent of total assets	43.2	42.4	42.7	47.1	46.6	45.0	46.3	48.2	48.8	49.1	48.3	47.4
Bonds	46.7	58.2	73.1	86.1	91.8	96.7	105.8	120.7	137.9	156.0	169.0	179.6
Stocks	5.0	9.1	15.4	26.8	25.9	21.9	28.1	34.3	33.8	35.5	39.8	47.4
Mortgages	41.8	60.0	74.4	76.9	81.4	86.2	89.2	91.6	96.8	106.2	118.4	131.1
Real estate	3.8	4.7	6.3	7.3	7.7	8.3	9.6	10.5	11.1	11.8	13.0	15.0
Policy loans	5.2	7.7	16.1	18.0	20.2	22.9	24.5	25.8	27.6	30.1	34.8	41.4
Other	5.3	7.2	10.9	13.1	14.1	15.4	16.9	18.5	21.1	23.7	27.6	31.7
Interest earned on assets <sup>1</sup> (percent)	4.11	4.61	5.30	5.56	5.88	6.25	6.36	6.55	6.89	7.31	7.73	8.02
Liabilities <sup>2</sup>	109.9	145.0	189.9	220.8	232.5	244.7	268.7	299.5	328.1	363.7	402.3	444.8
Policy reserves <sup>2</sup>	98.5	127.6	167.8	192.8	204.5	216.5	237.1	262.8	287.9	318.5	351.6	390.3
Capital and surplus <sup>2</sup>	9.7	13.8	17.3	19.0	19.9	18.6	20.6	22.0	23.6	26.2	30.0	34.4

<sup>1</sup> Net rate. <sup>2</sup> Includes business of accident and health departments of U.S. life insurance companies.

Source: American Council of Life Insurance, Washington, D.C., *Life Insurance Fact Book*, annual.

## No. 888. U.S. LIFE INSURANCE COMPANIES—NEW INVESTMENTS: 1960 TO 1980

[In billions of dollars, except percent. Minus sign (–) denotes decrease]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980
<b>Total</b>	<b>20.4</b>	<b>39.5</b>	<b>62.3</b>	<b>98.6</b>	<b>120.8</b>	<b>117.1</b>	<b>132.4</b>	<b>174.9</b>	<b>211.0</b>	<b>235.0</b>	<b>270.4</b>	<b>327.8</b>
Average annual percent change <sup>1</sup>	1.7	14.2	9.6	25.8	22.5	-3.1	13.1	32.0	20.6	11.4	15.1	21.3
Government securities	5.0	4.3	4.6	9.0	8.3	7.6	13.6	30.3	34.9	35.8	41.6	51.8
Short-term	(NA)	(NA)	3.8	7.4	6.9	6.2	9.9	23.1	27.4	29.4	34.7	44.8
Corporate securities	7.5	21.9	45.5	76.7	95.3	91.7	102.5	128.1	154.7	172.9	196.6	241.4
Bonds	6.9	20.4	41.4	68.2	87.1	86.7	96.5	120.4	147.1	164.9	186.2	227.3
Short-term	(NA)	34.6	54.0	74.3	75.4	75.0	96.4	116.9	136.9	163.0	205.1	205.1
Stocks	.7	1.5	4.1	8.5	8.2	4.8	6.0	7.7	7.6	8.0	10.4	14.1
Mortgages	6.1	11.1	7.2	8.7	11.5	11.3	9.6	9.8	14.2	17.8	20.7	19.8
Real estate	.3	.4	.9	1.0	1.2	1.3	2.1	1.8	2.1	2.2	2.8	3.3
Policy loans	1.4	1.7	4.1	3.3	4.6	5.3	4.6	4.8	5.1	6.3	8.7	11.5

NA Not available. <sup>1</sup> For 1980, change from 1959; thereafter for interval from prior year shown. For explanation of average annual percent change, see Guide to Tabular Presentation.

Source: American Council of Life Insurance, Washington, D.C., *Life Insurance Fact Book*, annual.

## No. 889. LARGEST LIFE INSURANCE COMPANIES—ASSETS AND INSURANCE IN FORCE, BY RANK OF ASSETS: 1960 TO 1980

[In billions of dollars, except percent. As of December 31]

ASSET GROUP	ASSETS							LIFE INSURANCE IN FORCE <sup>1</sup>						
	1960	1965	1970	1975	1978	1979	1980	1960	1965	1970	1975	1978	1979	1980
50 largest companies	104.9	135.8	171.8	232.3	305.1	336.2	370.9	487	697	1,031	1,517	2,020	2,245	2,484
Lowest ten	2.9	4.1	5.6	7.9	11.5	13.8	15.7	21	36	55	86	76	50	57
Second ten	4.7	6.4	8.3	11.7	15.1	16.7	18.4	23	34	59	91	156	121	134
Third ten	7.7	10.4	13.2	17.7	22.7	26.6	38	64	93	127	204	192	219	
Fourth ten	15.1	20.0	25.3	35.1	48.0	53.3	58.6	62	81	119	202	236	359	407
Highest ten	74.6	95.0	119.6	160.0	207.8	227.7	251.7	343	481	706	1,011	1,348	1,523	1,668
Percent of 50 largest:														
Lowest ten	2.7	3.0	3.2	3.4	3.8	4.1	4.2	4.3	5.2	5.3	5.7	3.8	2.2	2.3
Second ten	4.5	4.7	4.8	5.0	4.9	5.0	5.0	4.7	4.9	5.7	6.0	7.7	5.4	5.4
Third ten	7.3	7.6	7.7	7.6	7.4	7.3	7.1	7.9	9.2	9.0	8.4	10.1	8.6	8.8
Fourth ten	14.4	14.7	14.7	15.1	15.7	15.9	15.8	12.7	11.6	11.5	13.3	11.7	16.0	16.4
Highest ten	71.0	69.9	69.6	68.9	68.1	67.8	70.4	69.0	68.4	66.6	66.7	67.8	67.1	
Percent of all companies:														
50 largest	87.7	85.5	82.9	80.3	78.2	77.8	77.4	83.1	77.4	73.5	70.9	70.4	69.7	70.1
10 largest	62.4	59.8	57.7	55.3	52.7	52.5	58.5	53.4	50.4	47.2	47.0	47.3	47.1	

<sup>1</sup> Face value of all life policies outstanding. <sup>2</sup> See tables 885 and 887 for all companies.

Source: Time, Inc., New York, N.Y., adapted from *The Fortune Directory*, July issues. (Copyright.)

## NO. 890. HEALTH INSURANCE COVERAGE, BY TYPE OF COVERAGE: 1950 TO 1979

[In millions of persons. Beginning 1975, data include Puerto Rico and other U.S. territories and possessions. Duplication eliminated except as noted. "Hospital," "Surgical," "Regular medical," and "Major medical" represent coverage by insurance companies. Blue Cross-Blue Shield and medical society approved plans, and other plans. "Dental" represents insurance company coverage only. "Disability income" represents coverage by insurance companies, paid sick leave plans, and employee organizations. See also table 159.]

YEAR AND AGE GROUP	Hospital	Surgical	Regular medical	Major medical	DISABILITY INCOME <sup>1</sup>		Dental
					Short term	Long term	
1950.....	76.6	54.2	21.6	—	37.8	(2)	—
1955.....	101.4	85.7	53.0	(NA)	39.5	(4)	—
1960.....	122.5	111.5	83.2	32.6	42.4	(2)	(NA)
1965.....	138.7	130.5	109.6	69.7	46.9	4.5	(NA)
1970, total.....	158.8	151.4	138.7	103.5	58.1	11.0	12.0
Under 65.....	148.7	142.8	130.4	(NA)	58.1	11.0	(NA)
65 and over.....	10.1	8.6	8.3	(NA)	—	—	(NA)
1975, total.....	178.0	168.9	161.9	134.1	63.0	18.4	30.2
Under 65.....	165.4	158.5	152.2	(NA)	(NA)	18.4	(NA)
65 and over.....	12.6	10.4	9.7	(NA)	(NA)	—	(NA)
1978, total.....	181.5	172.5	164.1	141.5	68.3	19.1	58.1
Under 65.....	166.8	152.2	154.6	(NA)	(NA)	—	(NA)
65 and over.....	14.7	10.3	9.5	(NA)	(NA)	19.1	(NA)
1979, total.....	183.2	173.8	163.9	147.6	65.8	19.9	70.2
Under 65.....	169.1	163.4	154.3	(NA)	(NA)	19.9	(NA)
65 and over.....	14.1	10.4	9.6	(NA)	(NA)	—	(NA)

<sup>1</sup> Represents zero. NA Not available. <sup>2</sup> Any duplication resulting from combinations for short-term and long-term protection has not been eliminated.

<sup>3</sup> Included in "short-term" with some possible duplication.

Source: Health Insurance Institute, Washington, D.C., *Sourcebook of Health Insurance Data*, 1979-80. Data from Health Insurance Association of America, New York, N.Y.

## NO. 891. PRIVATE HEALTH INSURANCE ORGANIZATIONS—INCOME AND EXPENSES: 1960 TO 1979

[In millions of dollars, except percent. Minus sign (—) denotes loss. See also *Historical Statistics, Colonial Times to 1970*, series X 957-962]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979
<b>Total premium income</b> .....	<b>5,841</b>	<b>9,993</b>	<b>17,075</b>	<b>22,358</b>	<b>24,845</b>	<b>27,777</b>	<b>32,437</b>	<b>38,172</b>	<b>44,619</b>	<b>49,692</b>	<b>55,859</b>
Claims expense .....	4,996	8,738	15,619	19,086	21,091	24,466	30,072	35,471	40,013	45,044	50,176
Percent of premium income .....	85.5	87.4	91.5	85.4	84.9	88.1	92.7	92.8	89.7	90.6	89.8
Operating expense .....	1,845	1,417	2,380	3,182	3,468	3,887	4,193	4,788	5,464	6,194	7,116
Net underwriting gain.....	(1) <sup>1</sup>	-162	-934	89	286	-576	-1,828	-2,086	-858	-1,546	-1,433
Blue Cross-Blue Shield:											
Premium Income.....	2,482	4,169	7,371	9,923	11,059	12,367	14,446	17,268	19,553	21,547	23,471
Claims expense.....	2,287	3,913	7,060	8,891	10,004	11,640	14,192	16,227	17,826	19,465	21,724
Operating expense.....	195	239	534	689	775	911	1,063	1,193	1,330	1,502	1,716
Net underwriting gain.....	(1) <sup>1</sup>	17	-224	243	280	-184	-809	-151	597	580	31
Insurance companies:											
Premium Income.....	3,027	5,216	8,636	11,052	11,944	13,151	14,849	16,752	19,335	20,867	23,035
Claims expense.....	2,389	4,274	7,531	8,815	9,480	10,802	13,157	15,493	17,206	19,057	20,145
Net underwriting gain.....	(1) <sup>1</sup>	-883	-1,587	-161	-108	-473	-1,218	-2,064	-1,823	-2,359	-1,783
Other plans, premium income.....	332	608	1,068	1,383	1,842	2,259	3,142	4,151	5,730	7,279	9,353

<sup>1</sup> Data for net underwriting gain not available separately; included in operating expense.

Source: Through 1975, U.S. Social Security Administration, *Social Security Bulletin*, various issues, and unpublished data; thereafter, U.S. Health Care Financing Administration, *Health Care Financing Review*, Summer 1981.

## NO. 892. HEALTH INSURANCE—PREMIUM INCOME AND BENEFIT PAYMENTS: 1960 TO 1979

[In billions of dollars. Represents premium income of and benefits paid by insurance companies only. Beginning 1975, includes Puerto Rico and other U.S. outlying areas. Excludes Blue Cross-Blue Shield plans, medical-society sponsored plans, and all other independent plans]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979
<b>Premiums<sup>1</sup></b> .....	4.7	7.4	11.5	14.8	16.1	17.9	20.8	24.5	28.7	32.7	35.8
Group policies <sup>2</sup> .....	2.9	4.7	8.1	10.9	11.8	13.2	15.9	19.4	23.2	26.9	29.5
Individual and family policies.....	1.8	2.7	3.4	3.8	4.3	4.7	4.9	5.1	5.4	5.8	6.2
<b>Benefit payments<sup>3</sup></b> .....	3.1	5.2	9.1	10.6	11.9	13.6	16.5	20.2	22.1	26.4	29.5
Group policies <sup>2</sup> .....	2.4	4.0	7.5	8.9	9.8	11.4	14.2	17.8	19.5	22.9	25.8
Individual and family policies.....	.7	1.2	1.6	1.7	2.1	2.2	2.3	2.4	2.6	3.5	3.8
Type of coverage:											
Loss of income.....	.8	1.0	1.8	2.0	2.2	2.5	2.7	2.9	3.1	3.4	4.6
Medical expense .....	2.2	4.1	7.1	8.5	9.4	10.8	13.2	16.1	17.6	21.2	23.0
Dental .....	(NA)	(NA)	.1	.2	.3	.3	.6	1.2	1.5	2.0	2.0

NA Not available. <sup>1</sup> Prior to 1972, refers to written premiums; for 1972-79 refers to earned income. <sup>2</sup> Insurance company group premiums and benefit payments for 1975 through 1979 include Administrative Service Agreements and Minimum Premium Plans. Amounts for prior years contain only a portion of these data. <sup>3</sup> Beginning 1972, excludes accidental death and dismemberment benefits and accident medical reimbursement benefits.

Source: Health Insurance Institute, Washington, D.C., *Source Book of Health Insurance Data*, annual. Data from Health Insurance Association of America, New York, N.Y.

## No. 893. PROPERTY AND LIABILITY INSURANCE: 1960 TO 1979

[In millions of dollars, except companies reporting. Premiums written represent total premiums on all insurance policies written by companies, with inception dates in years shown. See also *Historical Statistics, Colonial Times to 1970*, series X 918, 923, 928, 933, and 940.]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979
Companies reporting.....	3,500	3,047	2,727	2,881	2,870	2,934	2,886	2,880	2,940	2,938	2,867
Premiums written <sup>1</sup> .....	14,873	20,063	32,867	39,318	42,480	45,152	49,967	60,418	72,397	81,690	90,123
Auto liability.....	3,883	5,424	8,956	10,387	11,821	12,010	13,315	16,052	18,829	20,393	22,102
Physical damage, auto.....	1,994	2,861	4,824	6,016	6,995	7,064	7,623	9,565	11,521	12,935	14,538
Liability, other than auto.....	963	1,137	2,140	2,555	2,741	2,990	3,981	5,384	6,794	7,708	7,817
Medical malpractice.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	895	1,133	1,194	1,216	1,204
Fire <sup>2</sup> .....	2,406	2,215	3,147	3,408	3,497	3,538	3,691	4,102	4,415	4,675	4,781
Homeowners multiple peril.....	764	1,523	2,585	3,316	3,770	4,156	4,729	5,689	6,766	7,792	8,792
Commercial multiple peril.....	56	509	1,331	2,078	2,518	2,857	3,176	4,052	4,891	5,830	6,687
Workmen's compensation.....	1,419	2,042	3,492	4,014	4,814	5,473	6,186	7,534	9,261	11,300	13,164
Inland marine.....	361	489	812	968	1,096	1,169	1,286	1,444	1,584	1,867	2,081
Ocean marine.....	230	282	465	577	654	765	861	902	953	1,000	1,009
Surety and fidelity.....	(NA)	408	562	681	701	748	789	835	912	1,076	1,155
Burglary and theft.....	116	110	135	136	131	130	120	124	129	133	140
Crop-hail.....	103	117	125	132	192	260	312	325	340	351	336
Boiler and machinery.....	85	91	115	129	137	141	173	170	213	236	283
Glass.....	48	41	40	39	37	34	32	32	34	35	33
Assets and surplus:											
Assets.....	30,132	41,843	58,594	78,885	83,862	82,115	94,118	112,975	135,513	160,060	187,406
Policyholders' surplus.....	11,930	17,112	18,520	28,211	27,091	20,898	25,303	31,394	37,372	45,004	54,418

NA Not available. <sup>1</sup> Includes all property, liability, and allied lines; other data are for principal lines only. <sup>2</sup> Includes extended coverage and allied lines.

Source: Insurance Information Institute, New York, N.Y., *Insurance Facts*, annual.

## No. 894. FIRE LOSSES—TOTAL AND PER CAPITA: 1946 TO 1980

[Prior to 1962, excludes Alaska and Hawaii. Includes allowance for uninsured and unreported losses but excludes losses to government property and forests. Based on paid losses through 1953, incurred losses thereafter]

YEARLY AVERAGE	Total (mil. dol.)	YEAR	Total (mil. dol.)	Per capita <sup>1</sup>	YEAR	Total (mil. dol.)	Per capita <sup>1</sup>	YEAR	Total (mil. dol.)	Per capita <sup>1</sup>
1946-1950.....	643	1960.....	1,108	\$6.19	1967.....	1,707	\$8.66	1974.....	3,190	\$15.09
1951-1955.....	833	1961.....	1,209	6.64	1968.....	1,830	9.20	1975.....	3,560	16.71
1956-1960.....	1,045	1962.....	1,285	6.80	1969.....	1,952	8.71	1976.....	3,558	16.59
1961-1965.....	1,340	1963.....	1,406	7.48	1970.....	2,328	11.41	1977.....	3,764	17.36
1966-1970.....	1,850	1964.....	1,367	7.16	1971.....	2,316	11.24	1978.....	4,008	18.34
1971-1975.....	2,802	1965.....	1,456	7.51	1972.....	2,304	11.08	1979.....	4,851	22.04
1976-1980.....	4,358	1966.....	1,497	7.64	1973.....	2,639	12.57	1980.....	5,608	24.69

<sup>1</sup> Based on Bureau of the Census estimated resident population as of July 1.

Source: 1946-1964, National Board of Fire Underwriters, New York, N.Y., *Report of the Committee on Statistics and Origin of Losses*; thereafter, Insurance Information Institute, New York, N.Y., *Insurance Facts*, annual.

## No. 895. FIRES—NUMBER AND LOSS, BY TYPE AND STRUCTURE BY SELECTED PROPERTY USE: 1979 AND 1980

[Based primarily on survey of fire departments. No adjustments were made for unreported fires and losses. Property loss includes direct property loss only]

TYPE AND PROPERTY USE	NUMBER (1,000)		PROPERTY LOSS (mil. dol.)		PROPERTY USE	NUMBER (1,000)		PROPERTY LOSS (mil. dol.)	
	1979	1980	1979	1980		1979	1980	1979	1980
Fires, total.....	2,846	2,988	5,750	6,254	Structure by property use—Con.				
Structure.....	1,037	1,065	4,964	5,454	Residential .....	722	758	2,529	3,042
Outside of structure <sup>1</sup> .....	80	87	38	61	1-2 family units <sup>2</sup> .....	551	591	2,034	2,447
Brush and rubbish.....	956	1,115	—	—	Apartments.....	146	143	343	401
Vehicle.....	496	472	682	685	Hotels and motels.....	11	12	100	154
Other.....	277	249	66	54	Other residential.....	14	12	52	40
Structure by property use:					Storage <sup>3</sup> .....	64	65	507	512
Public assembly.....	31	29	284	326	Industry, utility, defense <sup>3</sup> .....	58	55	966	672
Educational.....	22	20	78	101	Special structures .....	46	48	108	131
Institutional.....	30	28	34	25					
Stores and offices.....	64	62	457	645					

<sup>1</sup> Represents zero. <sup>2</sup> Includes outside storage, crops, timber, etc. <sup>3</sup> Includes mobile homes. Some incidents were handled by private fire brigades or fixed suppression systems which do not report.

<sup>a</sup> Data underreported as

Source: National Fire Protection Association, Boston, Mass., *Fire Journal*, bimonthly. (Copyright)



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## Section 18

# Business Enterprise

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This section relates to the place and behavior of the business firm, and to business initiative in the American economy. It includes data on the number, type, and size of businesses; financial data of domestic and foreign affiliates of U.S. corporations; business investment, expenditures, and profits; business sales and inventories; consumer cooperatives; minority-owned firms; and mergers, acquisitions, and business failures. Additional business data may be found in other sections, particularly 29 and 30.

The principal sources of these data are the *Survey of Current Business*, published by the Bureau of Economic Analysis (BEA); the *Federal Reserve Bulletin*, issued by the Board of Governors of the Federal Reserve System; the annual *Statistics of Income* reports of the Internal Revenue Service (IRS); *The Failure Record Through (Year)*, issued by Dun & Bradstreet, New York; and *Fortune* and *The Fortune Directory*, issued by Time, Inc., New York. Other sources are publications of the Securities and Exchange Commission (SEC), the Federal Trade Commission (FTC), and the Administrative Office of the United States Courts.

**Business firms.**—A firm is generally defined as a business organization under a single management and may include one or more establishments (i.e., a single physical location at which business is conducted). The terms firm, business, company, and enterprise are used interchangeably throughout this section. A firm doing business in more than one industry is classified by industry according to the major activity of the firm as a whole. The industrial classification is based on the *Standard Industrial Classification (SIC) Manual* (see text, page 376).

The IRS concept of a business firm relates primarily to the legal entity used for tax reporting purposes. The IRS *Statistics of Income* reports present data, based on a sample of tax returns before audit, separately for sole proprietorships, partnerships, and active corporations. A *sole proprietorship* is an unincorporated business owned by one person. Sole proprietorships include the entire range of unincorporated, one-owner businesses, farms, and professional practices, from large enterprises with many employees and hired managers to the part-time operations in which the owner is the only person involved. A *partnership* is an unincorporated business owned by two or more persons, each of whom has a financial interest in the business. The "persons" could be individuals, estates, trusts, or corporations. A *corporation* is a business that is legally incorporated under State laws. The IRS recognizes many types of businesses as corporations, including joint-stock companies; insurance companies; and unincorporated associations such as business trusts, savings and loan associations, certain partnerships, mutual savings banks, and cooperative banks. While many corporations file consolidated tax returns (i.e., one return for the parent firm and all its subsidiaries), most corporate tax returns represent individual corporations, some of which are affiliated through common ownership or control with other corporations filing separate returns.

**Assets and liabilities.**—In its annual report, *Statistics of Income, Corporation Income Tax Returns*, the IRS presents balance sheet and income estimates for all active U.S. corporations. The FTC issues 2 current reports, the *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*, which presents quarterly income account and balance sheet data for manufacturing, mining, and trade industries, and the *Working Capital of U.S. Nonfinancial Corporations*, which presents data on components of current assets and liabilities of all nonfinancial U.S. corporations.

One of the most comprehensive measures of the investment position of the business sector (and the only measure adjusted to current replacement cost) is the BEA capital stock series. See *Nonresidential Business and Residential Capital in the United States, 1926-75*, and periodic updates in the *Survey of Current Business*.

**Income, profits, dividends, and taxes.**—Several agencies, among them IRS and BEA, compile corporate income account data. These data, however, are not comparable because of differing methods of compilation. A reconciliation of the two can be found in table 8.12 of *National Income and Product Accounts*, published by BEA. The IRS publishes financial data for all business enterprises. These data appear in *Statistics of Income—Business Income Tax Returns and Corporation Income Tax Returns*. Supplemental reports published periodically present data on international income and taxes reported by U.S. corporations.

The corporate data issued by BEA are a part of its national income and product accounts (see text, p. 417) and are defined as required for purposes of national income estimation. The primary sources for BEA estimates of profits, taxes, dividends, and undistributed profits are the original corporate tax returns submitted to the IRS. Various adjustments of the IRS data are required by the national income treatment—adjustments, particularly with respect to profits which would be disclosed if all tax returns were audited; depletion; capital gain or loss; treatment of bad debts; measurement of income received from abroad; and intercorporate dividends to make the figures comparable with other entries in the national income accounts. For a discussion of two types of adjustments (inventory valuation and capital consumption), see text, page 417. BEA's corporate profits data also include net earnings of Federal Reserve banks, credit unions, private noninsured pension funds, and several federally sponsored credit agencies not included in *Statistics of Income*.

**Sources and uses of corporate funds.**—These data (table 938) show capital requirements of corporations and the manner in which they are financed. Sources of funds should be equal to their uses. Certain discrepancies, however, interfere with this equality due to omission of (1) money accruing to corporations from an excess of sales over purchases of used plant and equipment, (2) transactions in securities held as permanent investments except public offerings, and (3) net purchases of land. Also, the balance sheet data upon which many of the financial flow estimates are based are not fully comparable with the tax-return based estimates of internal sources, or the establishment series underlying the figures on inventory change.

**Plant and equipment expenditures.**—Estimates of actual and planned expenditures for new plant and equipment in the United States by most private, nonagricultural business firms are based on quarterly sample surveys conducted by the Bureau of Economic Analysis.

For quarterly data, see current issues of the *Survey of Current Business*. For discussion of coverage, concepts, and methodology, see October 1980 issue of the *Survey* for actual expenditures and February 1970 issue for planned expenditures.

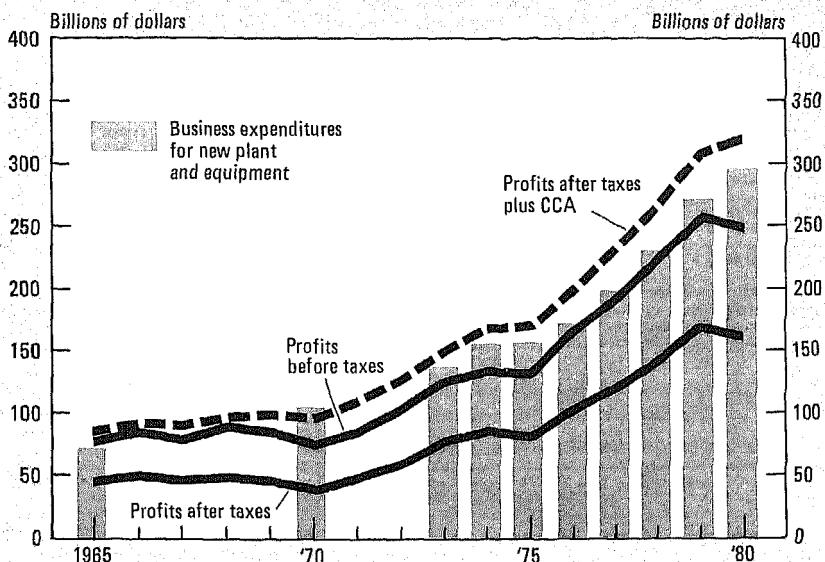
**Sales and inventories.**—Sales are estimated aggregate values, and inventories are book values at the end of the period. Sales signifies sales or shipments for retail and wholesale trade and billings or shipments for manufacturing. Trade inventories are valued at cost of merchandise on hand, while manufacturers' inventories are valued at approximate current costs or at book values, as reported by the manufacturer. Inventories figures (see table 934) are based on data from censuses (conducted every five years, for years ending in "2" and "7") and annual surveys. Monthly data for manufacturing appear in the Bureau of the Census Current Industrial Reports, *Manufacturers' Shipments, Inventories, and Orders*, series M3-1; for data on retail and wholesale trade, see Section 30.

**Economic censuses.**—The economic censuses constitute comprehensive and periodic canvasses of the Nation's industrial and business activities. The first economic census of the United States was conducted as part of the 1810 decennial census, when inquiries on manufacturing were included with the census of population. Minerals data were collected in 1840. The first censuses of construction and business were taken for 1929. An integrated economic census program was begun for 1954. In that year, the censuses covered the retail and wholesale trades, selected service industries, manufactures, and mineral industries. The economic censuses are taken at 5-year intervals covering years ending in "2" and "7".

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

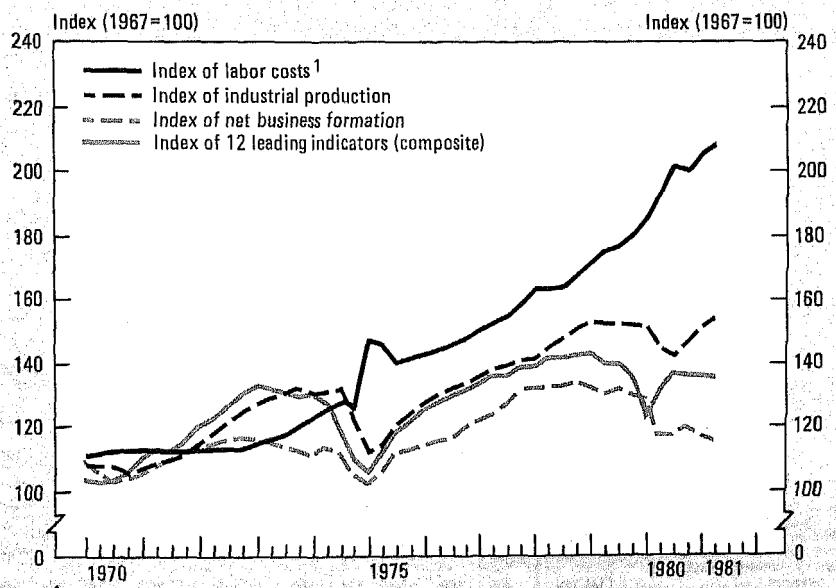
**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

Figure 18.1

**Business Expenditures, Profits, and Capital Consumption Allowances (CCA): 1965 to 1980**


Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 929 and 939.

Figure 18.2

**Cyclical Indicators — Selected Indexes: 1970 to 1981**


<sup>1</sup>Labor costs per unit of output.

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 931.

## Business Enterprise

**NO. 896. PROPRIETORSHIPS, PARTNERSHIPS, AND CORPORATIONS—NUMBER OF RETURNS, RECEIPTS, AND NET INCOME: 1955 TO 1978**

[Figures are estimates based on samples for all years for proprietorships and corporations, and beginning 1960 for partnerships; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series V 1-12.]

ITEM	Unit	1955	1960	1965	1970	1974	1975	1976	1977	1978, prel.
Number.....	1,000.....	9,046	11,172	11,416	12,001	13,902	13,979	14,536	14,741	(NA)
Receipts <sup>2</sup> .....	Bil. dol. ....	1,781	1,095	1,469	2,082	3,557	3,685	4,170	4,699	(NA)
Net income (less deficit) <sup>3</sup> .....	Bil. dol. ....	165	73	111	109	201	196	245	283	(NA)
Proprietorships, number <sup>4</sup> .....	1,000.....	8,239	9,090	9,078	9,400	10,874	10,882	11,358	11,346	12,018
Business receipts <sup>2</sup> .....	Bil. dol. ....	139	171	199	238	328	339	375	394	443
Net income (less deficit) <sup>3</sup> .....	Bil. dol. ....	18	21	28	33	46	45	50	51	59
Partnerships, number.....	1,000.....	(NA)	941	914	936	1,062	1,073	1,096	1,153	1,234
Total receipts <sup>5</sup> .....	Bil. dol. ....	(NA)	74	75	93	139	147	160	177	219
Net income (less deficit) <sup>3</sup> .....	Bil. dol. ....	(NA)	8	10	10	9	8	10	13	14
Corporations, number.....	1,000.....	807	1,141	1,424	1,665	1,968	2,024	2,082	2,242	(NA)
Total receipts <sup>5</sup> .....	Bil. dol. ....	642	849	1,195	1,751	3,090	3,199	3,635	4,128	(NA)
Net income (less deficit) <sup>3</sup> .....	Bil. dol. ....	47	44	74	66	145	143	185	219	(NA)

NA Not available. <sup>1</sup> Excludes partnerships. <sup>2</sup> See footnote 1, table 899. <sup>3</sup> See footnote 2, table 899. <sup>4</sup> Individually owned businesses and farms. <sup>5</sup> Total taxable receipts before deduction of cost of goods sold, cost of operations, and net loss from sales of property other than capital assets. Excludes nontaxable income except nontaxable interest. See headnote, table 899.

<sup>6</sup> Beginning 1965, includes constructive taxable income from related foreign corporations.

**NO. 897. PROPRIETORSHIPS, PARTNERSHIPS, AND CORPORATIONS—NUMBER OF RETURNS AND BUSINESS RECEIPTS, BY SIZE OF RECEIPTS: 1970 TO 1977**

[See headnote, table 899, and *Historical Statistics, Colonial Times to 1970*, series V 1-12]

SIZE CLASS OF RECEIPTS	1970		1975		1977							
	Number (1,000)	Receipts (bil. dol.)	Number (1,000)	Receipts (bil. dol.)	Total		Number (1,000)		Receipts (bil. dol.)			
					Number (1,000)	Receipts (bil. dol.)	Propri- etor- ships <sup>1</sup>	Part- ner- ships <sup>1</sup>	Cor- por- ations <sup>1</sup>	Propri- etor- ships <sup>1</sup>		
Total.....	12,001	2,036	13,979	3,447	14,741	4,384.3	11,346	1,153	2,242	393.9	176.5	3,813.9
Under \$25,000 <sup>2</sup> .....	8,200	51	9,107	55	9,295	57.8	8,243	568	484	51.4	4.1	2.3
\$25,000-\$49,999.....	1,302	46	1,519	53	1,635	57.3	1,294	149	192	46.3	5.4	5.6
\$50,000-\$99,999.....	1,000	71	1,247	86	1,369	95.1	947	153	269	66.4	11.1	17.6
\$100,000-\$199,999.....	661	93	1,575	330	1,786	377.3	527	126	769	72.3	17.8	177.5
\$200,000-\$499,999.....	474	146	849	189	299	202.7	261	103	78.1	31.6	11.1	145.3
\$500,000-\$999,999.....	181	126	249	169	299	53	32	214	35.4	22.0	12.5	3,465.6
\$1,000,000 or more.....	182	1,503	284	2,754	358	3,594.1	21	23	314	44.0	84.5	.1
PERCENT DISTRIBUTION												
Under \$25,000 <sup>2</sup> .....	68.3	2.5	65.1	1.6	63.1	1.3	72.7	49.3	21.6	13.0	2.3	.1
\$25,000-\$49,999.....	10.8	2.3	10.9	1.5	11.1	1.3	11.4	12.9	8.6	11.8	3.1	
\$50,000-\$99,999.....	8.3	3.5	8.9	2.5	9.3	2.2	8.4	13.3	12.0	16.9	6.3	.5
\$100,000-\$199,999.....	5.5	4.6	11.3	9.6	12.1	8.6	4.6	10.9	34.3	18.4	10.1	.7
\$200,000-\$499,999.....	4.0	7.2	11.3	4.9	2.0	2.3	8.0	8.0	19.8	17.9	12.5	3.8
\$500,000-\$999,999.....	1.5	6.2	1.8	4.9	2.4	4.6	.5	2.6	9.5	9.0	12.5	
\$1,000,000 or more.....	1.5	73.8	2.0	79.8	2.4	82.0	.2	2.0	14.0	11.2	47.9	90.9

<sup>1</sup> Active firms only. <sup>2</sup> Includes firms with no receipts.

Source of tables 896 and 897. U.S. Internal Revenue Service, *Statistics of Income, Business Income Tax Returns*, annual, and *Statistics of Income, Corporation Income Tax Returns*, annual.

**NO. 898. FEDERAL GOVERNMENT LOANS TO ALL SMALL BUSINESSES AND TO MINORITY-OPERATED SMALL BUSINESSES: 1970 TO 1980**

[For years ending June 30 except, beginning 1977 ending Sept. 30. A small business must be independently owned and operated, must not be dominant in its particular industry, and must meet standards set by the Small Business Administration as to its annual receipts or number of employees]

LOANS APPROVED	Unit	1970- 1980, avg.	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980
Loans, all businesses.....	1,000.....	27.3	15.1	28.0	33.9	27.5	22.3	26.1	31.8	31.7	30.2	31.7
Minority-operated businesses.....	1,000.....	6.7	6.3	9.0	9.1	6.9	5.4	5.5	6.2	6.1	5.5	6.0
Percent of all businesses <sup>1</sup> .....	25	41	32	27	25	24	21	19	19	19	18	19
Value of total loans.....	Mil. dol....	2,259	710	1,574	2,196	1,948	1,594	2,071	3,049	3,314	3,407	3,858
Loans to minority-operated business.....	Mil. dol....	309	160	258	334	269	229	262	352	402	428	470
Percent of all loans.....	Percent....	14	23	16	15	15	14	13	12	12	13	12

Source: U.S. Small Business Administration, unpublished data.

**NO. 899. PROPRIETORSHIPS, PARTNERSHIPS, AND CORPORATIONS—NUMBER OF RETURNS, RECEIPTS, AND NET INCOME, BY INDUSTRY: 1977**

[Figures are estimates based on sample of unaudited tax returns filed for accounting periods ending between July 1 of year shown and June 30 of following year; see Appendix III. Due to minor variations in estimating techniques, totals differ slightly from those shown in other IRS tables in this section. Proprietorships are individually owned businesses and farms. See *Historical Statistics, Colonial Times to 1970*, series V 42-53, for number of active corporations. Minus sign (-) denotes net loss]

INDUSTRY	NUMBER OF RETURNS (1,000)			BUSINESS RECEIPTS <sup>1</sup> (bil. dol.)			NET INCOME (less deficit) <sup>2</sup> (bil. dol.)		
	Propri- etor- ships	Active partner- ships	Active corpora- tions	Propri- etor- ships	Active partner- ships	Active corpora- tions	Propri- etor- ships	Active partner- ships	Active corpora- tions
<b>Total<sup>3</sup></b>	<b>11,346</b>	<b>1,153</b>	<b>2,242</b>	<b>393.9</b>	<b>176.5</b>	<b>8,813.9</b>	<b>51.4</b>	<b>13.3</b>	<b>219.2</b>
Agric., forestry, and fishing	3,177	121	66	74.6	13.5	33.9	3.0	.8	.7
Mining	71	22	19	4.6	5.9	92.6	.1	-.6	31.4
Construction	994	69	215	42.8	14.2	176.7	6.6	1.5	4.5
Manufacturing	224	28	231	10.0	6.8	1,591.3	1.3	.5	100.0
Transportation, public utilities <sup>4</sup>	385	17	85	13.9	3.8	318.4	1.8	.2	18.4
Wholesale and retail trade <sup>5</sup>	2,265	193	673	160.5	48.6	1,215.6	9.8	2.6	30.2
Wholesale	307	29	238	33.5	16.6	625.3	2.5	.8	17.0
Retail	1,862	164	433	123.6	32.0	589.0	6.9	1.9	13.2
Finance, insurance, real estate <sup>6</sup>	895	476	433	19.3	43.9	206.9	.4	-1.0	27.7
Services	3,303	227	516	67.8	37.8	175.6	22.5	9.2	6.6

<sup>1</sup> Receipts from sales and services less allowances, rebates, and returns; excludes capital gains or losses, and investment income not associated with the taxpayer's business. <sup>2</sup> Net income (less deficit) is defined differently by legal form of organization, basically as follows: (a) Proprietorships: Total taxable receipts less total deductions, including cost of sales and operations; investment and other income are excluded; (b) Partnerships: Total taxable receipts less total deductions, including cost of sales and operations; investment and other income, except capital gains, are included; (c) Corporations: Total taxable receipts less total deductions, including cost of sales and operations; investment and other income, such as capital gains and income from foreign corporations considered received for tax purposes only, are included; net profit is before income tax. <sup>3</sup> Includes business not allocable to individual industries. <sup>4</sup> Includes sanitary services. <sup>5</sup> Includes total receipts for the finance, insurance, and real estate industry.

**NO. 900. PROPRIETORSHIPS, PARTNERSHIPS, AND CORPORATIONS—NUMBER OF RETURNS AND RECEIPTS, BY INDUSTRY AND SIZE OF BUSINESS RECEIPTS: 1977**

[Number in thousands; receipts and net income in millions of dollars. See headnote, table 899. See *Historical Statistics, Colonial Times to 1970*, series V 42-53, for number of active corporations]

INDUSTRY	PROPRIETORSHIPS <sup>1</sup>			ACTIVE PARTNERSHIPS			ACTIVE CORPORATIONS		
	Under \$50,000 <sup>3</sup>	\$50,000- \$99,999	\$100,000 or more	Under \$100,000 <sup>2</sup>	\$100,000- \$499,999	\$500,000 or more	Under \$500,000	\$500,000- \$999,999	\$1,000,000 or more
All Industrial divisions: <sup>9</sup>									
Number	9,537	947	861	870	229	55	1,714	213	314
Business receipts <sup>4</sup>	97.7	66.4	229.8	20.7	49.5	106.4	203,091	145,263	3,465,571
Net income <sup>5</sup>	18.3	13.3	19.8	2.2	6.0	9.5	13,333	6,885	225,056
Agriculture, forestry, and fishing:									
Number	2,814	237	126	90	27	4	56	5	5
Business receipts <sup>4</sup>	27.4	16.3	31.0	2.5	5.3	5.7	6,973	3,525	23,434
Mining:									
Number	58	5	8	18	3	2	13	2	4
Business receipts <sup>4</sup>	.5	.4	3.8	.2	.6	5.0	1,700	1,607	89,247
Construction:									
Number	793	99	102	47	18	4	152	31	32
Business receipts <sup>4</sup>	10.4	7.0	25.3	1.7	9.8	8.8	23,292	21,594	131,918
Manufacturing:									
Number	176	24	25	20	6	2	135	31	65
Business receipts <sup>4</sup>	1.8	1.6	6.5	.5	1.4	6.9	22,152	22,571	1,546,617
Transportation, public utilities: <sup>6</sup>									
Number	320	43	22	12	4	1	85	9	11
Business receipts <sup>4</sup>	4.9	2.8	6.2	.4	.8	2.6	7,990	6,412	304,029
Wholesale and retail trade:									
Number	1,591	261	413	110	66	18	431	91	151
Business receipts <sup>4</sup>	18.4	18.7	123.4	9.8	14.9	29.9	73,324	63,979	1,078,312
Finance, Insurance, and real estate:									
Number	825	46	24	410	53	14	396	15	23
Business receipts <sup>4</sup>	8.0	3.1	8.2	7.1	11.4	25.4	24,021	10,300	370,811
Services:									
Number	2,930	231	141	164	52	11	464	29	23
Business receipts <sup>4</sup>	26.0	16.4	25.4	4.5	11.2	22.1	54,853	20,074	100,661

<sup>1</sup> Individually owned businesses and farms. <sup>2</sup> Includes businesses without receipts. <sup>3</sup> Includes businesses not allocable to individual industries. <sup>4</sup> See footnote 1, table 899. <sup>5</sup> Less loss. See footnote 2, table 899. <sup>6</sup> Includes sanitary services.

<sup>7</sup> For partnerships and corporations, total receipts (which include investment income), rather than business receipts, were used as the size classifier and for the amounts shown.

Source of tables 899 and 900: U.S. Internal Revenue Service, *Statistics of Income*, annual, *Business Income Tax Returns*, annual; and *Statistics of Income, Corporation Income Tax Returns*, annual.

## Business Enterprise

## NO. 901. ESTABLISHMENTS, EMPLOYEES, AND PAYROLL BY INDUSTRY AND EMPLOYMENT-SIZE CLASS: 1979

[Excludes government employees, railroad employees, self-employed persons, etc. See "General Explanation" in source for definitions and statement on reliability of data]

ITEM	Unit	All Industries <sup>1</sup>	Agricultural services <sup>2</sup>	Mining	Contract construction	Manufacturing	Transportation <sup>3</sup>	Wholesale trade	Retail trade	Finance and insurance <sup>4</sup>	Services
<b>Establishments, total</b>	1,000	<b>4,536</b>	46	28	447	321	168	383	1,237	425	1,262
Under 20 employees	1,000	3,929	44	20	406	194	132	323	1,072	380	1,141
20 to 99 employees	1,000	505	2	6	37	87	29	55	151	39	99
100 to 249 employees	1,000	68	(z)	1	3	24	5	4	11	4	15
250 or more employees	1,000	33	(z)	1	1	16	2	1	3	2	7
<b>Employees, total</b>	1,000	<b>74,881</b>	<b>283</b>	<b>949</b>	<b>4,609</b>	<b>21,483</b>	<b>4,604</b>	<b>5,186</b>	<b>15,148</b>	<b>5,160</b>	<b>18,774</b>
Under 20 employees	1,000	19,406	(d)	119	(o)	1,367	733	1,972	6,026	1,621	5,100
20 to 99 employees	1,000	20,992	66	251	1,466	3,988	1,234	2,104	6,141	1,536	4,149
100 to 249 employees	1,000	10,508	22	182	518	3,801	782	617	1,616	629	2,341
250 or more employees	1,000	23,775	(d)	397	(b)	12,327	1,854	493	1,365	1,374	5,184
<b>Payroll</b>	<b>Mil. dol.</b>	<b>951,821</b>	<b>2,772</b>	<b>18,935</b>	<b>72,359</b>	<b>336,692</b>	<b>79,608</b>	<b>81,174</b>	<b>115,301</b>	<b>68,178</b>	<b>171,802</b>
Under 20 employees	Mil. dol.	205,773	(d)	2,225	(b)	17,891	9,405	29,375	43,255	19,470	57,001
20 to 99 employees	Mil. dol.	238,686	598	4,542	23,793	52,275	19,394	32,347	45,851	20,145	39,411
100 to 249 employees	Mil. dol.	130,784	204	3,664	9,307	51,683	13,630	10,219	13,193	8,405	20,531
250 employees	Mil. dol.	372,578	(d)	8,504	(o)	214,843	37,179	9,233	13,057	20,157	54,658

D Withheld to avoid disclosing figures for individual companies.  
Z Less than 500.

Under 20 employees.....  
20 to 99 employees.....  
100 to 249 employees.....  
250 or more employees.....

Includes forestry and fisheries.

Includes nonclassifiable establishments not shown separately.

Includes other public utilities.

Includes real estate.

<sup>1</sup> Includes nonclassifiable establish-  
ments not shown separately.

<sup>2</sup> Includes forestry and fisheries.

<sup>3</sup> Includes other public utilities.

<sup>4</sup> Includes real estate.

Source: U.S. Bureau of the Census, *County Business Patterns* 1979, CBP-79-1.

## NO. 902. WOMEN-OWNED FIRMS—NUMBER AND RECEIPTS, BY INDUSTRY: 1977

[A firm is considered to be women-owned if one-half or more of the partners are women; a corporation is classified as women-owned if 50 percent or more of the stock is owned by women. The same majority ownership criteria applies to minority-owned businesses. For coverage detail, see source]

INDUSTRY	FIRMS, 1977 (1,000)			RECEIPTS, 1977 (bil. dol.)		
	All firms <sup>1</sup>	Women-owned		All firms <sup>1</sup>	Women-owned	
		Number of firms	Percent of all firms		Receipts	Percent of all firms
All Industries, total.....	9,833	702	7.1	633.1	41.5	6.6
Construction.....	1,107	21	1.9	72.6	2.9	4.0
Manufacturing.....	287	19	6.6	38.5	3.6	9.4
Transportation and public utilities.....	419	12	2.9	22.8	1.3	5.7
Wholesale and retail trade.....	2,600	228	8.8	291.4	23.4	8.0
Finance, insurance, real estate.....	1,404	66	4.7	66.6	2.1	3.2
Selected services.....	3,623	316	8.7	120.1	7.1	5.9
Other industries <sup>2</sup> .....	393	40	10.2	21.2	1.2	5.7

<sup>1</sup> Based on data from U.S. Internal Revenue Service, preliminary report, *Statistics of Income, Business Income Tax Returns, 1977* and *Statistics of Income, Corporation Income Tax Returns, 1978*. <sup>2</sup> Includes industries not classified.

Source: U.S. Bureau of the Census, *Women-Owned Businesses*, 1977.

## NO. 903. MINORITY-OWNED FIRMS—SUMMARY BY INDUSTRY: 1977

[These data were developed from administrative records of government agencies, various published and unpublished sources, a direct mail canvass, and personal contacts with community and government representatives knowledgeable in this area. Caution should be exercised in comparing data presented here with published or unpublished data from other reports of the 1977 economic censuses. Factors affecting comparability of data among censuses are scope of survey, business unit canvassed, and receipt size limitations. See source for further detail. See also headnote, table 902.]

OWNERSHIP AND INDUSTRY	ALL FIRMS		FIRMS WITH PAID EMPLOYEES			FIRMS WITHOUT PAID EMPLOYEES	
	Total (1,000)	Gross receipts (mil. dol.)	Total (1,000)	Employee <sup>1</sup> (1,000)	Annual payroll (mil. dol.)	Gross receipts (mil. dol.)	Total (1,000)
All Industries <sup>2</sup> .....	561	26,382	105	498	3,356	18,996	456
Black-owned.....	231	8,645	40	184	1,135	6,397	191
Spanish-origin.....	219	10,417	41	205	1,350	7,140	178
Construction.....	52	2,361	12	45	386	1,813	40
Manufacturing.....	13	1,959	6	60	447	1,842	7
Transp. and public utilities.....	37	1,060	4	15	139	556	33
Wholesale trade.....	9	2,031	2	14	152	1,788	7
Retail trade.....	147	10,629	38	183	929	7,820	110
Finance and insurance <sup>2</sup> .....	28	1,334	3	24	212	1,043	26
Selected services.....	234	6,202	38	151	1,020	4,039	196

<sup>1</sup> For week including March 12. <sup>2</sup> Includes other not shown separately. <sup>3</sup> Includes real estate.

Source: U.S. Bureau of the Census, 1977 Survey of Minority-Owned Business Enterprises, MB77-1, MB77-2, MB77-3, and MB77-4.

**NO. 904. MERGERS AND ACQUISITIONS—MANUFACTURING AND MINING CONCERN ACQUIRED: 1925 TO 1979**

[Prior to 1972, totals limited to actions reported by Moody's Investors Service, Inc., and Standard & Poor's Corporation. Included are partial acquisitions when they comprise whole divisions or subsidiaries of other companies. See also *Historical Statistics, Colonial Times to 1970*, series V 38.]

PERIOD	Con-cerns ac-quired, aggre-gate for period	Year	All con-cerns ac-quired, total	LARGE CONCERN (ASSETS OF \$10 MILLION OR MORE) ACQUIRED <sup>1</sup>					
				Number of mergers			Assets acquired (mil. dol.)		
				Total	Horizon-tal and vertical	Con-glo-merate	Total	Horizon-tal and vertical	Con-glo-merate
1925-1929	4,583	1960	844	51	14	37	1,535	453	1,082
1930-1934	1,887	1965	1,008	64	16	48	3,254	573	2,681
1935-1939	577	1970	1,351	91	12	79	5,904	1,174	4,730
1940-1944	906	1971	1,011	59	8	51	2,460	578	1,882
1945-1949	1,505	1972	911	60	24	36	1,885	773	1,112
1950-1954	1,424	1973	874	64	25	39	3,149	1,093	2,056
1955-1959	3,365	1974	602	62	24	38	4,466	1,417	3,049
1960-1964	4,366	1976	559	81	18	63	6,279	1,031	5,248
1965-1969	8,213	1977	590	99	30	69	8,670	1,937	6,733
1970-1974	4,749	1978	610	111	35	76	10,724	4,875	6,050
1975-1979	2,717	1979	519	97	10	67	12,867	1,231	11,637

<sup>1</sup> Concerns for which financial data are publicly available.

**NO. 905. MERGERS AND ACQUISITIONS—MANUFACTURING AND MINING CONCERN ACQUIRED, BY INDUSTRY GROUP OF ACQUIRING CONCERN: 1960 TO 1979**

[See headnote, table 904]

INDUSTRY OF ACQUIRING CONCERN	1960-1964, total	1965-1969, total	1970-1974, total	1975-1979, total	1973	1974	1975	1976	1977	1978	1979
<b>Total concerns acquired...</b>	<b>4,366</b>	<b>8,213</b>	<b>4,749</b>	<b>2,717</b>	<b>874</b>	<b>602</b>	<b>430</b>	<b>559</b>	<b>590</b>	<b>610</b>	<b>519</b>
Mining...	209	303	258	128	34	36	27	28	26	24	23
Manufacturing <sup>1</sup> ...	3,694	6,842	3,426	1,833	578	418	288	375	393	427	350
Food and kindred products...	326	536	384	198	77	40	27	42	43	53	33
Tobacco manufactures...	24	37	18	18	3	2	4	1	5	5	3
Textiles and apparel...	280	439	160	59	30	15	3	13	11	16	16
Lumber and furniture...	109	250	175	55	31	27	7	14	12	8	14
Paper and allied products...	133	175	120	53	21	30	8	10	18	8	9
Printing and publishing...	158	224	158	126	28	21	29	24	30	22	22
Chemicals...	443	615	334	202	65	47	44	39	46	46	27
Petroleum...	78	73	34	18	6	7	3	7	2	2	4
Rubber and plastics products...	74	139	71	44	12	7	2	10	16	10	6
Leather products...	32	75	41	10	5	-	3	3	1	1	2
Stone, clay, and glass products...	103	212	136	66	19	25	15	13	11	14	13
Primary metals...	173	366	180	110	24	23	22	22	23	19	24
Fabricated metal products...	225	471	214	149	45	25	24	43	29	32	21
Machinery, except electrical...	397	817	413	265	59	45	48	44	51	58	64
Electrical machinery...	573	1,160	478	229	67	45	35	47	47	54	46
Transportation equipment...	272	483	218	94	39	31	10	12	20	32	20
Professional scientific instruments...	189	407	172	94	21	9	9	20	22	24	19
Nonmanufacturing <sup>2</sup> ...	483	1,268	1,063	756	262	148	124	155	171	159	146

- Represents zero.

<sup>1</sup> Includes miscellaneous and ordnance, not shown separately.

<sup>2</sup> Includes unknown.

**NO. 906. MERGERS AND ACQUISITIONS—COMPANIES ACQUIRED, BY ASSET SIZE OF ACQUIRING AND ACQUIRED COMPANIES AND BY INDUSTRY: 1978 AND 1979**

[Excludes pending mergers and acquisitions]

ASSET SIZE	ACQUIRING COMPANY		ACQUIRED COMPANY		INDUSTRY	ACQUIRING COMPANY		ACQUIRED COMPANY	
	1978	1979	1978	1979		1978	1979	1978	1979
<b>Total</b>	<b>1,279</b>	<b>1,214</b>	<b>1,279</b>	<b>1,214</b>	<b>Total</b>			<b>1,279</b>	<b>1,214</b>
Under \$1 mil. <sup>1</sup>	197	138	895	746	Manufacturing	647	604	490	405
\$1 mil. to \$9.9 mil.	44	38	119	123	Mining...	47	44	36	40
\$10.0 mil. to \$49.9 mil.	220	133	157	213	Wholesale, retail trade	113	105	154	144
\$50.0 mil. to \$99.9 mil.	148	146	46	57	Service and other <sup>2</sup>	321	309	161	165
\$100.0 mil. and over	670	759	62	75	Unknown...	151	152	438	460

<sup>1</sup> Includes companies of unknown asset size.

<sup>2</sup> Companies in insurance, construction, farming, finance, credit, real estate, transportation, communication; electric, gas, sanitary services; and holding companies.

Source of tables 904-906: U.S. Federal Trade Commission, *Statistical Report on Mergers and Acquisitions*, annual.

## Business Enterprise

## NO. 907. NEW BUSINESS CONCERN AND BUSINESS FAILURES: 1960 TO 1980

[See also *Historical Statistics, Colonial Times to 1970*, series V 21-24]

FORMATIONS AND FAILURES	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
<b>Business formations:</b>											
Index, net formations <sup>1</sup> (1967=100) .....	94.5	99.5	107.1	115.5	111.2	108.8	117.2	126.5	132.9	131.7	121.1
New incorporations (1,000) .....	183	204	264	329	319	326	376	438	478	525	534
Failures, number <sup>2</sup> (1,000) .....	15.4	13.5	10.7	9.3	9.9	11.4	9.5	7.9	6.6	7.6	11.8
Rate per 10,000 concerns.....	57	53	44	36	38	43	35	28	24	28	42

<sup>1</sup> Source: U.S. Bureau of Economic Analysis. <sup>2</sup> See footnote 2, table 908.Source: Except as noted, Dun & Bradstreet, New York, N.Y., *Monthly New Business Incorporation Report*.

## NO. 908. INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES: 1946 TO 1980

[Excludes Hawaii prior to 1975, Alaska prior to 1976. Excludes all railroad failures. Excludes real estate and financial companies.  
See also *Historical Statistics, Colonial Times to 1970*, series V 20-30]

YEARLY AVERAGE OR YEAR	Total concerns in busi- ness <sup>1</sup> (1,000)	FAILURES <sup>2</sup>				YEAR	Total concerns in busi- ness <sup>1</sup> (1,000)	FAILURES <sup>2</sup>			
		Num- ber	Rate per 10,000 concerns	Current liabili- ties <sup>3</sup> (mil. dol.)	Aver- age liability (\$1,000)			Num- ber	Rate per 10,000 concerns	Current liabili- ties <sup>3</sup> (mil. dol.)	Aver- age liability (\$1,000)
1946-1950.....	2,493	5,652	21	213	45	1969.....	2,444	9,154	37	1,142	125
1951-1955.....	2,635	9,317	35	370	38	1970.....	2,442	10,748	44	1,888	176
1956-1960.....	2,674	14,177	53	708	50	1971.....	2,465	10,328	42	1,917	185
1961-1965.....	2,565	14,849	57	1,261	86	1972.....	2,490	9,566	38	2,000	209
1966-1970.....	2,481	10,993	44	1,324	121	1973.....	2,567	9,345	36	2,299	248
1971-1975.....	2,559	10,117	40	2,730	270	1974.....	2,591	9,915	38	3,053	308
1976-1979.....	2,767	7,933	29	2,857	360	1975.....	2,679	11,432	43	4,380	383
1965.....	2,527	13,514	53	1,322	98	1976.....	2,782	9,628	35	3,011	313
1966.....	2,520	13,081	52	1,386	106	1977.....	2,793	7,919	28	3,095	391
1967.....	2,519	12,364	49	1,265	102	1978.....	2,786	6,619	24	2,656	401
1968.....	2,481	9,636	39	941	98	1979.....	2,708	7,564	28	2,667	353
							2,780	11,742	42	4,635	395

<sup>1</sup> Data represent number of names listed in July issue of *Dun & Bradstreet Reference Book*. <sup>2</sup> Includes concerns discontinued following assignment, voluntary or involuntary petition in bankruptcy, attachment, execution, foreclosure, etc.; voluntary withdrawals from business with known loss to creditors; also enterprises involved in court action, such as receivership and reorganization or arrangement which may or may not lead to discontinuance; and businesses making voluntary compromise with creditors out of court.<sup>3</sup> Liabilities exclude long-term publicly held obligations; offsetting assets are not taken into account.

## NO. 909. INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES, BY STATES: 1979 AND 1980

STATE	CURRENT LIABILITIES <sup>1</sup> (mil. dol.)				STATE	CURRENT LIABILITIES <sup>1</sup> (mil. dol.)				STATE	CURRENT LIABILITIES <sup>1</sup> (mil. dol.)			
	1979	1980	1979	1980		1979	1980	1979	1980		1979	1980	1979	1980
U.S. ....	7,564	11,742	2,667.4	4,635.1	W.N.C.—					W.S.C. ....	957	1,378	372.1	613.6
	391	464	252.1	217.0	Con.					Ark. ....	71	93	10.7	43.6
N.E. ....	46	62	12.6	23.7	Mo.	65	112	10.1	39.0	La. ....	137	133	53.3	77.2
Maine....	13	15	5.5	1.5	N. Dak.	25	61	6.9	12.6	Oklahoma....	120	254	28.0	83.7
N.H. ....	6	12	2.8	1.7	S. Dak.	22	69	6.9	19.7	Tex. ....	629	898	280.1	409.1
Vt. ....	218	235	184.3	145.1	Kans.	108	142	18.2	24.6	Mt. ....	234	416	51.9	99.8
Mass. ....	8	18	6.7	10.7	S.A. ....	634	1,127	196.6	350.1	Mont. ....	34	86	5.7	26.7
R.I. ....	100	122	40.2	34.2	Del.	6	17	1.1	5.0	Idaho....	34	58	4.1	12.6
M.A. ....	1,269	1,580	570.6	703.9	Md.	125	127	28.3	20.5	Wyo. ....	4	2	2.3	.2
N.Y. ....	477	593	237.7	382.3	D.C. ....	9	—	1.6	—	Colo. ....	91	133	26.4	36.8
N.J. ....	421	430	194.2	182.7	Va.	140	234	34.7	55.6	N.Mex. ....	8	53	5.3	9.2
Pa. ....	371	557	138.8	158.9	W. Va.	16	36	9.1	45.1	Ariz. ....	27	16	3.5	1.9
E.N.C. ....	1,368	2,091	390.2	1,279.6	N.C. ....	101	194	25.7	51.2	Utah....	9	28	2.0	4.6
Ohio....	298	432	77.3	91.2	S.C. ....	9	—	12.9	—	Nev. ....	27	40	2.5	8.0
Ind....	166	211	48.2	58.5	Ga.	145	237	50.2	104.2	Pac. ....	1,690	2,962	585.1	808.8
Ill....	369	653	129.1	175.9	Fla.	83	282	31.2	68.4	Wash. ....	299	696	87.3	125.0
Mich....	389	604	103.2	904.6	Ky.	74	153	15.8	34.6	Oreg. ....	168	255	60.3	127.5
Wis....	146	191	34.4	49.4	E.S.C. ....	440	841	100.6	234.1	Calif. ....	1,162	1,849	428.4	521.7
W.N.C. ....	581	883	148.2	328.2	Tenn.	234	449	47.1	115.0	Hawaii....	38	83	8.7	21.6
Minn....	212	280	77.3	176.0	Ala.	103	154	29.8	61.9	Alaska....	3	79	.3	12.9
Iowa....	79	100	11.9	25.3	Miss.	20	68	7.9	22.6					

— Represents zero. <sup>1</sup> See headnote, and footnotes 2 and 3, table 908.Source of tables 908 and 909: Dun & Bradstreet, New York, N.Y., *The Failure Record Through 1979* and *Monthly Failure Report*.

**NO. 910. INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES, BY INDUSTRY AND SIZE OF LIABILITY: 1970 TO 1980**

[Excludes Hawaii prior to 1975, Alaska prior to 1977. See footnotes 2 and 3, table 908]

INDUSTRY AND SIZE OF LIABILITY	FAILURES						CURRENT LIABILITIES (mil. dol.)					
	1970	1975	1977	1978	1979	1980	1970	1975	1977	1978	1979	1980
Total.....	10,748	11,432	7,919	6,619	7,564	11,742	1,888	4,380	3,095	2,656	2,667	4,635
Mining and manufacturing.....	2,035	1,645	1,122	1,013	1,185	1,599	818	1,021	1,221	879	970	1,885
Under \$100,000.....	1,069	789	479	381	424	501	43	35	23	18	21	25
\$100,000 and over.....	966	856	643	632	741	1,098	775	986	1,198	861	949	1,880
Wholesale trade.....	984	1,089	887	740	908	1,284	179	407	613	346	421	591
Under \$100,000.....	650	611	450	313	342	468	27	28	21	15	17	24
\$100,000 and over.....	334	478	437	427	566	816	152	379	592	331	404	567
Retail trade.....	4,650	4,799	3,406	2,889	3,183	4,910	361	1,836	483	777	637	994
Under \$100,000.....	3,984	3,520	2,368	1,916	1,920	2,698	124	136	98	86	88	130
\$100,000 and over.....	666	1,279	1,038	973	1,263	2,212	236	1,700	384	692	549	864
Construction.....	1,687	2,262	1,463	1,204	1,378	2,355	232	641	420	328	291	782
Under \$100,000.....	1,229	1,433	887	650	718	1,147	42	58	38	28	33	56
\$100,000 and over.....	458	829	595	554	680	1,208	190	583	382	300	258	696
Commercial service.....	1,392	1,637	1,041	773	930	1,594	299	475	359	326	348	413
Under \$100,000.....	1,087	1,151	697	452	526	868	33	42	28	18	21	38
\$100,000 and over.....	305	486	344	321	404	726	265	433	331	308	327	375

Source: Dun & Bradstreet, New York, N.Y., *The Failure Record Through 1979* and *Monthly Failure Report*.

**NO. 911. BANKRUPTCY ESTATES FILED AND PENDING: 1905 TO 1980**

[In thousands. For years ending June 30, except 1905 ending Sept. 30. Covers all U.S. bankruptcy courts. Bankruptcy estate "Filed" means the commencement of a proceeding through the presentation of a petition to the clerk of the bankruptcy court; "Pending" is a proceeding in which the administration has not been completed]

YEAR	Filed	Pend-ing									
1905.....	17	28	1945.....	13	21	1965.....	180	162	1973.....	173	189
1910.....	18	28	1950.....	33	38	1966.....	192	169	1974.....	190	201
1915.....	28	44	1955.....	59	58	1967.....	208	185	1975.....	254	262
1920.....	14	30	1960.....	110	95	1968.....	198	184	1976.....	247	271
1925.....	46	60	1981.....	147	124	1969.....	185	179	1977.....	214	254
1930.....	63	61	1982.....	148	134	1970.....	194	191	1978.....	203	240
1935.....	69	65	1983.....	155	148	1971.....	201	201	1979.....	226	258
1940.....	53	55	1984.....	172	157	1972.....	183	197	1980.....	361	421

Source: Administrative Office of the United States Courts, *Tables of Bankruptcy Statistics*, annual, and *Federal Judicial Workload Statistics*, annual.

**NO. 912. BANKRUPTCY ESTATES FILED, BY TYPE OF BANKRUPTCY AND CHAPTER OF THE BANKRUPTCY ACT/CODE: 1971 TO 1980**

[For years ended June 30]

ITEM	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Total.....	201,352	182,869	173,197	189,513	254,484	246,549	214,399	202,951	226,476	2360,957
Business.....	19,103	18,192	17,490	20,746	30,130	35,201	32,189	30,528	29,500	46,066
Non-business.....	182,249	164,797	155,707	168,767	224,354	211,348	182,210	172,423	196,976	314,886
Voluntary.....	200,118	181,752	172,200	188,493	253,198	245,383	213,257	201,944	225,549	359,768
Involuntary.....	1,234	1,117	997	1,020	1,286	1,166	1,142	1,007	927	1,184
Act	Code									
Chapters I-VII.....	Chapter 7 <sup>a</sup> .....	168,364	153,934	145,914	157,871	209,330	209,067	181,194	168,771	183,259
Chapter IX.....	Chapter 9 <sup>a</sup> .....	2	1	—	2	—	2	1	2	1
Chapter X.....	(X).....	179	105	101	163	189	141	96	75	63
Chapter XI.....	Chapter 11 <sup>b</sup> .....	1,782	1,361	1,458	2,171	3,506	3,285	3,046	3,266	3,042
Chapter XII.....	(X).....	120	92	92	172	280	525	640	650	689
Chapter XIII.....	Chapter 13 <sup>c</sup> .....	30,904	27,373	25,632	29,019	41,178	33,578	29,422	30,185	39,442
Section 77 <sup>d</sup> .....	(X).....	—	3	—	15	1	—	2	2	—
Section 304 <sup>e</sup> .....	(X).....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	5

<sup>a</sup> Represents zero. <sup>b</sup> Not applicable. <sup>c</sup> For the first three months of 1980 the judiciary operated under the Bankruptcy Act and for the last nine months under both the Bankruptcy Act and the new bankruptcy code established by the Bankruptcy Reform Act of 1978. <sup>d</sup> Includes five Section 304 cases filed under the Reform Act. <sup>e</sup> Chapter 7, liquidation of non-exempt assets of businesses or individuals. <sup>f</sup> Chapter 9, adjustment of debts of a municipality. <sup>g</sup> Chapter 11, individual or business reorganization. <sup>h</sup> Chapter 13, adjustment of debts of an individual with regular income. <sup>i</sup> Chapter 11 now provides for railroad reorganization, no longer applies. Subchapter IV of Chapter 11 now provides for railroad reorganization. <sup>j</sup> 11 U.S.C., Section 304, cases ancillary to foreign proceedings.

Source: Administrative Office of the U.S. Courts, *Annual Report of the Director*.

## Business Enterprise

## No. 913. GROSS DOMESTIC PRODUCT (GDP) OF CORPORATE BUSINESS: 1960 TO 1980

[In billions of dollars, except percent. For explanation of GDP, see text, p. 417. Excludes gross product originating in the rest of the world. Capital consumption allowances include capital consumption adjustment. Minus sign (-) denotes decrease. For explanation of average annual percent change, see Guide to Tabular Presentation. See *Historical Statistics, Colonial Times to 1970*, series V 141-166, for single-year figures prior to revisions issued in 1981.]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980
Gross domestic product (GDP).....	292.3	413.6	596.9	864.7	937.6	1,053.9	1,191.6	1,340.3	1,494.9	1,614.2
GDP, financial corp. business <sup>1</sup> .....	15.4	20.2	33.2	45.8	47.6	52.5	62.2	69.6	77.9	80.9
GDP, nonfinancial corp. business.....	277.0	393.6	563.7	818.9	890.0	1,001.3	1,129.5	1,270.7	1,417.0	1,533.3
Capital consumption allowances <sup>2</sup> .....	27.3	33.4	54.1	83.4	99.5	109.9	122.4	136.4	155.4	175.4
Indirect business taxes <sup>3</sup> .....	29.9	43.9	66.3	93.5	101.7	110.2	120.4	130.9	139.6	159.2
Domestic income.....	235.2	336.3	476.5	687.8	736.4	833.8	948.8	1,073.1	1,199.8	1,279.5
CURRENT DOLLARS										
GDP, total.....	277.0	393.6	563.7	818.9	890.0	1,001.3	1,129.5	1,270.7	1,417.0	1,533.3
Avg. annual percent change <sup>4</sup> .....	4.1	7.3	7.5	9.8	8.7	12.5	12.8	12.5	11.5	8.2
Capital consumption allowances <sup>2</sup> .....	26.8	32.7	52.2	79.5	94.9	104.8	116.6	129.7	147.5	165.9
Indirect business taxes <sup>3</sup> .....	28.3	41.1	63.4	89.7	97.1	105.3	115.1	125.2	133.6	152.4
Domestic income.....	221.9	319.8	448.1	649.7	697.9	791.2	897.8	1,015.8	1,155.9	1,215.0
Compensation of employees.....	161.1	246.1	378.4	556.5	581.1	654.4	738.2	841.4	954.0	1,037.1
Corporate profits <sup>5</sup> .....	37.4	67.7	52.7	63.6	86.1	107.3	126.3	137.6	136.7	121.8
Profits before tax.....	39.7	65.2	56.8	105.3	107.3	135.0	153.5	174.3	193.4	180.1
Profits after tax.....	20.5	38.0	29.8	63.3	66.1	82.3	94.1	107.0	123.7	118.2
Inventory valuation adjustment.....	-2	-1.2	-6.6	-40.0	-11.6	-14.7	-15.8	-24.3	-42.6	-43.9
Capital consumption adjustment.....	-2.1	3.7	2.4	-1.8	-9.7	-13.0	-11.4	-12.4	-14.1	-14.4
Net interest.....	3.5	6.1	17.0	29.6	30.8	29.5	33.2	36.8	45.2	56.1
CONSTANT (1972) DOLLARS										
GDP, total.....	356.4	495.2	599.6	708.2	694.2	745.5	799.0	845.1	873.3	866.2
Avg. annual percent change <sup>4</sup> .....	3.2	6.7	3.9	4.3	-2.0	7.4	7.2	5.8	3.3	-8
Capital consumption allowances.....	36.3	43.1	56.8	68.7	71.8	74.5	77.9	80.4	84.6	88.1
Indirect business taxes <sup>3</sup> .....	41.4	54.5	67.4	78.1	79.1	82.7	87.2	90.9	92.7	95.1
Domestic income.....	280.7	397.8	475.4	561.4	543.3	588.3	633.9	673.8	696.0	682.9

<sup>1</sup> Corporations comprising the finance, insurance, and real estate industry. <sup>2</sup> With capital consumption adjustments. <sup>3</sup> Plus transfer payments less subsidies. <sup>4</sup> Change from prior year shown; for 1960, change from 1959. <sup>5</sup> With inventory valuation and capital consumption adjustment.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-76*, and *1976-79*, and *Survey of Current Business*, April 1981.

## No. 914. ACTIVE CORPORATIONS—ASSETS AND LIABILITIES: 1960 TO 1977

[In billions of dollars. See headnote, table 448. For number of income tax returns, see table 919. See also *Historical Statistics, Colonial Times to 1970*, series V 108-127.]

ASSETS AND LIABILITIES	1960	1965	1970	1971	1972	1973	1974	1975	1976	1977
<b>Assets<sup>1</sup></b> .....	1,207	1,724	2,635	2,889	3,257	3,649	4,016	4,287	4,721	5,326
Cash.....	97	117	177	196	228	259	281	290	315	362
Notes and accounts receivable <sup>2</sup> .....	242	392	595	650	762	891	998	1,021	1,137	1,304
Inventories.....	91	126	190	199	224	263	312	318	351	396
Investments, government obligations.....	135	157	197	223	240	250	256	316	357	381
Mortgage and real estate loans.....	129	(3)	328	366	418	463	508	548	599	661
Other investments.....	179	465	406	461	514	556	578	636	711	835
Capital assets <sup>4</sup> .....	293	395	600	634	685	750	831	892	968	1,076
<b>Liabilities</b> .....	1,207	1,724	2,635	2,889	3,257	3,649	4,016	4,287	4,721	5,326
Notes and accounts payable <sup>5</sup> .....	112	174	320	334	386	461	539	536	579	666
Other current liabilities.....	365	583	892	1,005	1,163	1,316	1,459	1,577	1,791	2,083
Bonded debt and mortgages <sup>6</sup> .....	154	210	363	403	445	493	542	587	639	694
Other liabilities.....	157	220	308	339	376	421	460	490	506	552
Capital stock.....	140	161	201	210	221	228	240	252	269	287
Surplus and undivided profits <sup>7</sup> (net).....	269	375	551	599	666	730	776	843	938	1,064

<sup>1</sup> Includes assets, not shown separately. <sup>2</sup> Less allowance for bad debts. Includes loans and discounts of banks, except reserves. Includes land and intangible assets. <sup>3</sup> Included in "Other investments." <sup>4</sup> Less depreciation, amortization, and depletion reserves. <sup>5</sup> With maturity of 1 year or more. <sup>6</sup> Beginning 1970, reduced by cost of treasury stock.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*, annual.

## No. 915. NONFINANCIAL CORPORATE BUSINESS-SECTOR BALANCE SHEET: 1960 TO 1980

[In billions of dollars. Represents year-end outstandings. 1980 preliminary]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
<b>Total assets</b>	<b>630</b>	<b>825</b>	<b>1,241</b>	<b>1,674</b>	<b>1,946</b>	<b>2,090</b>	<b>2,272</b>	<b>2,515</b>	<b>2,848</b>	<b>3,281</b>	<b>3,656</b>
Tangible assets	449	566	871	1,148	1,429	1,532	1,662	1,850	2,091	2,408	2,722
Reproducible	368	469	758	1,011	1,267	1,361	1,476	1,644	1,857	2,142	2,427
Land	81	97	113	137	163	171	186	206	234	266	295
Financial assets	182	259	370	526	517	558	610	665	757	873	935
Liquid assets	51	63	99	101	105	125	139	141	151	169	193
Demand deposits and currency	28	33	44	46	48	54	55	56	62	68	72
Time deposits	3	9	5	17	20	22	24	29	31	36	41
Consumer credit	11	15	17	22	22	22	24	25	27	30	32
Trade credit	81	119	189	267	244	250	270	301	356	421	438
Miscellaneous assets	38	62	94	137	145	160	178	198	223	252	272
<b>Total liabilities</b>	<b>239</b>	<b>351</b>	<b>563</b>	<b>793</b>	<b>816</b>	<b>852</b>	<b>926</b>	<b>1,027</b>	<b>1,173</b>	<b>1,362</b>	<b>1,466</b>
Credit market instruments	154	223	376	522	600	629	679	756	846	981	1,045
Profit taxes payable	14	20	11	16	17	14	22	20	24	25	18
Trade debt	64	98	162	235	174	180	194	216	262	323	342
Miscellaneous liabilities	7	9	13	21	25	28	31	35	41	52	61
Net worth	392	475	678	881	1,130	1,238	1,347	1,488	1,675	1,919	2,191

Source: Board of Governors of the Federal Reserve System, *Balance Sheets For U.S. Economy*.

## No. 916. WORKING CAPITAL OF NONFINANCIAL CORPORATIONS: 1971 TO 1980

[In billions of dollars, except ratios. As of December 31. Covers all nonfinancial U.S. corporations]

ITEM	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
<b>Current assets</b>	<b>529.6</b>	<b>599.3</b>	<b>697.8</b>	<b>734.6</b>	<b>756.3</b>	<b>823.1</b>	<b>900.9</b>	<b>1,028.1</b>	<b>1,200.9</b>	<b>1,279.9</b>
Cash on hand and in banks <sup>1</sup>	53.3	59.0	66.3	73.0	80.0	86.8	94.3	103.7	116.1	120.8
U.S. Government securities	11.0	10.6	12.8	11.3	19.6	26.0	18.7	15.6	17.0	
Receivables, total <sup>2</sup>	221.1	248.2	288.5	265.5	272.1	292.4	325.0	381.9	456.8	491.1
Inventories	200.4	225.7	263.8	318.9	314.7	341.4	375.6	428.3	501.7	525.1
Other current assets	43.8	55.8	66.4	65.9	76.4	87.3	96.3	110.7	125.9	
<b>Current liabilities</b>	<b>326.0</b>	<b>375.6</b>	<b>450.8</b>	<b>451.8</b>	<b>446.9</b>	<b>487.5</b>	<b>546.8</b>	<b>661.9</b>	<b>809.1</b>	<b>877.2</b>
Payables	220.5	282.9	340.3	272.3	261.2	273.2	313.7	375.1	456.3	498.2
Other current liabilities	105.5	92.7	110.7	179.5	185.7	214.2	233.1	286.8	352.8	379.0
<b>Net working capital</b>	<b>203.6</b>	<b>223.7</b>	<b>246.9</b>	<b>282.8</b>	<b>309.5</b>	<b>335.6</b>	<b>354.1</b>	<b>366.2</b>	<b>391.8</b>	<b>402.7</b>
Liquidity ratio <sup>3</sup>	.332	.334	.323	.332	.379	.368	.366	.323	.300	.301
Current ratio <sup>4</sup>	1.625	1.595	1.548	1.626	1.693	1.688	1.648	1.553	1.517	.459

<sup>1</sup> Includes time certificates of deposits. <sup>2</sup> Includes U.S. Government receivables. <sup>3</sup> Cash plus U.S. Government securities plus "other current assets," divided by "current liabilities." <sup>4</sup> "Current assets" divided by "current liabilities."

Source: U.S. Federal Trade Commission. In Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*.

## No. 917. LARGEST MANUFACTURING CORPORATIONS—PERCENT SHARE OF ASSETS HELD: 1950 TO 1980

[Prior to 1970, excludes newspapers. Data prior to 1974 not strictly comparable with later years.]

CORPORATION RANK GROUP	1950	1955	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980
100 largest	39.7	44.3	46.4	46.5	48.5	47.6	44.7	44.4	45.0	45.4	45.9	45.5	46.1	46.7
200 largest	47.7	53.1	56.3	56.7	60.4	60.0	56.8	56.7	57.5	58.0	58.5	58.3	59.0	59.7

Source: U.S. Federal Trade Commission, unpublished data.

## No. 918. LARGEST MANUFACTURING COMPANIES—PERCENT SHARE OF TOTAL VALUE ADDED BY MANUFACTURE: 1947 TO 1977

["Largest companies" are those which were largest in each of the specified years in terms of value added. For details, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series P 177-180.]

COMPANY RANK	1947 Census	1954 Census	1958 Census	1962 ASM	1963 Census	1966 ASM	1967 Census	1970 ASM	1972 Census	1976 ASM	1977 Census
Largest 50 companies	17	23	23	24	25	25	25	24	25	24	24
Largest 100 companies	23	30	30	32	33	33	33	33	33	33	33
Largest 150 companies	27	34	35	36	37	38	38	36	39	40	39
Largest 200 companies	30	37	38	40	41	42	42	43	43	44	44

Source: U.S. Bureau of the Census, *Census of Manufactures and Annual Survey of Manufactures (ASM)*.

## Business Enterprise

## NO. 919. CORPORATION INCOME TAX RETURNS—SELECTED ITEMS: 1960 TO 1977

[In billions of dollars, except number of returns. Federal returns and active corporations only. See headnote, table 448. See also *Historical Statistics, Colonial Times to 1970*, series V 129-136]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977
Number of returns (1,000).....	1,140	1,424	1,666	1,813	1,905	1,966	2,024	2,082	2,242
Returns with—									
Assets, end of year (1,000).....	1,095	1,380	1,619	1,758	1,844	1,903	1,952	2,017	2,185
Net income (1,000).....	670	915	1,008	1,140	1,203	1,208	1,226	1,274	1,425
Income tax less credits <sup>1</sup> (1,000).....	(NA)	(NA)	735	772	752	803	793	749	776
Total receipts.....	849.1	1,194.6	1,750.8	2,171.2	2,557.7	3,089.7	3,198.6	3,635.5	4,128.3
Business receipts.....	802.8	1,120.4	1,620.9	2,007.3	2,361.4	2,864.8	2,961.7	3,370.4	3,813.9
Interest <sup>2</sup> .....	23.6	37.2	71.8	86.3	113.3	143.0	143.3	156.0	176.7
Capital gain, net <sup>3</sup> .....	3.1	5.3	5.5	9.1	9.1	8.2	8.4	9.7	11.8
Net gain, noncapital assets .....	1.9	2.9	5.3	8.5	7.7	7.0	7.8	8.9	11.2
Dividends received <sup>4</sup> .....	4.2	6.7	8.7	11.1	14.8	21.2	14.3	19.5	22.2
Receipts not specified.....	13.6	22.0	38.8	48.9	51.4	55.5	63.1	71.0	92.4
Total deductions.....	804.6	1,119.9	1,682.8	2,071.7	2,435.0	2,941.5	3,052.7	3,448.9	3,908.8
Cost of sales and operations.....	577.0	793.0	1,146.3	1,412.5	1,682.5	2,068.1	2,129.9	2,416.6	2,725.0
Interest paid.....	14.6	26.4	62.1	72.9	99.6	132.9	129.3	135.1	152.9
Depreciation, depletion <sup>5</sup> .....	26.8	39.2	59.3	71.6	80.6	98.4	92.4	100.3	113.6
Employee benefits, pension, stock bonus, etc .....	7.2	11.4	19.6	27.3	31.9	36.8	42.2	50.6	60.0
Deductions not specified.....	178.8	249.8	395.5	487.5	540.5	605.6	658.9	746.3	857.3
Receipts less deductions.....	44.5	74.7	67.9	99.5	122.6	148.2	146.0	186.6	219.5
Net income less deficit.....	43.5	73.9	65.9	96.8	120.4	146.0	142.6	185.4	219.2
Income tax <sup>6</sup> .....	21.9	31.7	33.3	42.9	52.4	66.1	66.1	83.2	96.3
Income tax less credits <sup>1</sup> .....	20.6	27.3	27.9	33.5	39.1	41.1	39.7	49.8	56.7
Distributions to stockholders <sup>7</sup> .....	17.2	26.0	32.0	36.0	41.8	49.3	45.2	54.6	61.5

NA Not available. <sup>1</sup>Credits includes foreign tax, investment, work incentive (WIN) (beginning 1972), U.S. possessions tax (beginning 1976), and new jobs credits (beginning 1977). <sup>2</sup>Includes interest on Government obligations and other interest. <sup>3</sup>Net long-term capital gain reduced by net short-term capital loss. <sup>4</sup>Includes foreign. <sup>5</sup>Includes amortization. <sup>6</sup>Income tax is before deductions for credit; see footnote 1. Beginning 1965, includes tax from recomputing prior-year investment credit; 1970, includes tax surcharge. Beginning 1970 includes additional tax for tax preferences; beginning 1973, includes tax from recomputing prior-year work incentive (WIN) credit. <sup>7</sup>Other than own stock.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*, annual.

## NO. 920. ACTIVE CORPORATIONS—INCOME TAX RETURNS, BY ASSET SIZE: 1960 TO 1977

[Figures are estimates based on samples of active corporations filing income tax returns; see Appendix III. See *Historical Statistics, Colonial Times to 1970*, series V 42, for total active corporations]

ASSET SIZE-CLASS	NUMBER OF RETURNS (1,000)					TOTAL ASSETS (bil. dol.)						
	1960	1965	1970	1975	1976	1977	1960	1965	1970	1975	1976	
<b>Total</b> .....	<b>1,140.6</b>	<b>1,424.0</b>	<b>1,666.5</b>	<b>2,023.6</b>	<b>2,082.2</b>	<b>2,241.9</b>	<b>1,207</b>	<b>1,724</b>	<b>2,635</b>	<b>4,287</b>	<b>4,721</b>	<b>5,326</b>
Under \$100,000 <sup>1</sup> .....	684.6	846.2	981.0	1,882.3	1,195.5	1,261.1	23	28	32	255	38	41
\$100,000-\$1 mil.....	389.3	490.7	599.1	733.6	804.5	111	143	178	229	252		
\$1 mil.-\$10 mil.....	56.3	73.5	87.0	116.4	126.3	147.6	159	206	240	310	332	392
\$10 mil.-\$25 mil.....	5.8	7.4	9.8	12.2	13.0	13.6	89	115	153	193	205	215
\$25 mil.-\$50 mil.....	2.1	2.9	3.9	5.6	6.0	6.5	73	99	135	195	210	228
\$50 mil.-\$100 mil.....	1.1	1.5	2.1	3.1	3.4	3.8	80	104	145	213	238	264
\$100 mil.-\$250 mil.....	.8	1.1	1.4	2.1	2.3	2.5	119	165	222	331	364	390
\$250 mil. and over.....	.6	.8	1.2	1.9	2.1	2.2	552	862	1,530	2,790	3,105	3,544
<b>Total</b> .....	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	
Under \$100,000 <sup>1</sup> .....	60.0	59.4	57.7	93.0	57.4	56.2	1.9	1.6	1.2	5.9	.8	.8
\$100,000-\$1 mil.....	34.1	34.5	36.0	35.2	35.9	9.2	6.3	6.8		4.9	4.7	
\$1 mil.-\$10 mil.....	4.9	5.2	5.2	5.8	6.1	6.6	13.2	12.0	9.1	7.2	7.0	7.4
\$10 mil.-\$25 mil.....	.5	.5	.6	.6	.6	7.4	6.7	5.8	4.5	4.3	4.0	
\$25 mil.-\$50 mil.....	.2	.2	.2	.3	.3	.3	6.0	5.7	5.1	4.5	4.5	4.3
\$50 mil.-\$100 mil.....	.1	.1	.1	.2	.2	.2	6.6	6.1	5.5	5.0	5.0	5.0
\$100 mil.-\$250 mil.....	.1	.1	.1	.1	.1	.1	9.9	9.6	8.4	7.7	7.7	7.3
\$250 mil. and over.....	.1	.1	.1	.1	.1	.1	45.8	50.0	58.1	65.1	65.8	66.5

<sup>1</sup> Includes returns with zero assets.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*, annual.

# Corporation Income Tax Returns

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## No. 921. ACTIVE CORPORATIONS—INCOME TAX RETURNS, BY ASSET SIZE AND INDUSTRY: 1977

[In billions of dollars, except as indicated. See headnote and footnotes, table 448. See also *Historical Statistics, Colonial Times to 1970*, series V 167-183 and V 193-196]

INDUSTRY, AND ITEM	Total	ASSET SIZE-CLASS					
		Under 10 mil. dol. <sup>1</sup>	10-24.9 mil. dol.	25-49.9 mil. dol.	50-99.9 mil. dol.	100-249.9 mil. dol.	250 mil. dol. and over
<b>All industrial divisions:</b> <sup>2</sup>							
Number of returns .....	2,241,887	2,213,212	13,628	6,524	3,788	2,590	2,205
Total assets or liabilities .....	5,326.4	685.7	215.3	228.4	263.9	389.5	3,543.6
Total receipts.....	4,128.3	1,457.4	198.7	148.6	160.8	235.6	1,926.3
Total deductions <sup>3</sup> .....	3,908.8	1,416.7	189.3	141.6	152.4	222.1	1,786.6
Cost of sales and operations.....	2,725.0	1,016.7	140.7	100.2	107.4	152.7	1,207.4
Interest and taxes paid.....	257.1	54.1	10.3	10.6	12.4	18.2	151.7
Depreciation and amortization.....	108.0	27.1	3.9	3.0	3.2	5.3	65.5
Depletion .....	5.7	.5	.2	.2	.2	.3	4.3
Net income less deficit <sup>4</sup> .....	219.2	40.4	9.0	7.6	7.8	13.0	141.4
Income tax <sup>5</sup> .....	96.3	15.6	4.0	3.4	3.4	5.6	64.3
<b>Percent distribution:</b>							
Number of returns .....	100.0	98.7	.6	.3	.2	.1	.1
Total assets or liabilities .....	100.0	12.9	4.0	4.3	5.0	7.3	66.5
Total receipts.....	100.0	35.3	4.8	3.6	3.9	5.7	46.7
Total deductions .....	100.0	36.2	4.8	3.6	3.9	5.7	45.8
Cost of sales and operations.....	100.0	37.3	5.2	3.7	3.9	5.6	44.3
Interest and taxes paid.....	100.0	21.0	4.0	4.1	4.8	7.1	59.0
Depreciation and amortization.....	100.0	25.1	3.6	2.8	3.0	4.9	60.6
Depletion .....	100.0	8.8	3.5	3.5	3.5	5.3	75.4
Net income less deficit <sup>4</sup> .....	100.0	18.4	4.1	3.5	3.6	5.9	64.5
Income tax <sup>5</sup> .....	100.0	16.2	4.2	3.5	3.5	5.8	66.8
<b>Agriculture, forestry, and fishing:</b>							
Number of returns .....	65,594	65,456	95	23	9	8	3
Total assets or liabilities .....	28.9	23.1	1.4	.7	1.6	1.3	1.8
Total receipts.....	35.9	27.9	2.0	1.0	1.2	1.0	2.8
<b>Mining:</b>							
Number of returns .....	19,216	18,720	256	100	50	43	47
Total assets or liabilities .....	88.4	10.8	3.9	3.5	3.6	6.2	80.3
Total receipts.....	96.2	14.2	3.4	2.8	2.4	3.6	69.7
<b>Construction:</b>							
Number of returns .....	214,745	214,008	517	126	46	33	15
Total assets or liabilities .....	91.2	60.2	7.7	4.4	3.2	5.1	10.6
Total receipts.....	181.6	139.3	11.2	6.5	4.0	6.7	13.8
<b>Manufacturing:</b>							
Number of returns .....	231,149	226,099	2,556	958	578	449	499
Total assets or liabilities .....	1,182.3	128.1	39.3	33.4	40.6	70.9	872.0
Total receipts.....	1,653.5	293.4	71.4	55.8	60.6	103.4	1,068.9
<b>Transportation and public utilities:</b>							
Number of returns .....	85,215	84,237	403	157	91	98	229
Total assets or liabilities .....	538.8	26.5	6.3	5.7	6.4	15.6	478.3
Total receipts.....	330.1	49.9	7.6	6.5	7.2	11.8	247.0
<b>Wholesale and retail trade:</b>							
Number of returns .....	672,394	669,318	1,913	561	318	177	106
Total assets or liabilities .....	414.7	219.6	28.7	19.4	22.0	26.2	98.7
Total receipts.....	1,239.9	736.5	79.1	52.4	57.9	71.3	242.6
<b>Finance, insurance, real estate:</b> <sup>6</sup>							
Number of returns .....	432,919	415,606	7,310	4,436	2,616	1,685	1,287
Total assets or liabilities .....	2,861.5	147.4	119.4	155.5	182.1	258.5	1,998.6
Total receipts.....	405.1	54.1	15.4	17.9	20.8	31.8	265.0
<b>Services:</b>							
Number of returns .....	516,987	515,510	557	163	81	37	39
Total assets or liabilities .....	119.3	70.5	8.4	5.8	5.4	5.7	23.5
Total receipts.....	183.0	139.1	8.3	6.7	6.6	5.8	16.5

<sup>1</sup> Includes returns of corporations with zero assets. <sup>2</sup> Includes data not shown separately. <sup>3</sup> Includes deductions not specified. For deductions detail, see table 919. <sup>4</sup> Excludes wholly tax-exempt interest but includes income from related foreign corporations considered received for tax purposes only. <sup>5</sup> Income tax is before deductions for foreign tax, U.S. possessions tax, investment, work incentive (WIN) and new jobs credits. Includes additional tax for tax preferences, taxes from recomputing prior year investment, and work incentive (WIN) credits. <sup>6</sup> Includes lessors of real property.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns, 1977*.

## Business Enterprise

## NO. 922. MANUFACTURING CORPORATION ASSETS AND PROFITS, BY ASSET SIZE: 1970 TO 1980

[Corporations and assets as of end of 4th quarter; profit for entire year. Corporations under \$10 million based on sample; \$10 million and over based on complete canvass. For details regarding methodology, see source for fourth quarter, 1980.]

YEAR AND ITEM	Unit	Total	ASSET-SIZE CLASS						
			Under \$10 mil.	\$10-\$25 mil.	\$25-\$50 mil.	\$50-\$100 mil.	\$100-\$250 mil.	\$250 mil.-\$1 bil.	\$1 bil. and over
<b>1970</b>									
Corporations	Number	197,807	2 195,000	1,202	533	366	289	218	102
Assets, total	Mil. dol.	578,234	69,101	20,471	20,138	25,946	47,783	112,475	282,320
Percent	Percent	100.0	12.0	3.5	3.5	4.5	8.3	19.5	48.8
Net profit, total <sup>a</sup>	Mil. dol.	28,572	2,812	811	836	1,101	2,315	5,862	14,832
Percent	Percent	100.0	9.8	2.8	2.9	3.9	8.1	20.5	51.9
<b>1975</b>									
Corporations	Number	(NA)	(NA)	1,750	705	450	392	276	151
Assets, total	Mil. dol.	810,910	98,147	31,307	24,720	31,995	62,524	139,113	423,705
Percent	Percent	100.0	12.1	3.9	3.0	3.9	7.7	17.2	52.3
Net profit, total <sup>a</sup>	Mil. dol.	49,135	6,212	1,831	1,927	1,676	3,553	8,165	26,370
Percent	Percent	100.0	12.6	3.7	2.7	3.4	7.2	16.6	53.7
<b>1977</b>									
Corporations	Number	(NA)	(NA)	(NA)	809	501	409	327	174
Assets, total	Mil. dol.	982,996	102,241	35,603	28,595	35,032	63,590	160,107	537,830
Percent	Percent	100.0	10.6	3.7	3.0	3.6	6.6	16.6	56.8
Net profit, total <sup>a</sup>	Mil. dol.	70,366	8,683	2,189	1,867	2,252	4,401	11,206	39,769
Percent	Percent	100.0	12.3	3.1	2.7	3.2	6.3	15.9	56.5
<b>1978</b>									
Corporations	Number	(NA)	(NA)	1,780	802	518	408	320	181
Assets, total	Mil. dol.	1,086,433	114,006	38,358	30,813	37,429	66,907	164,958	833,963
Percent	Percent	100.0	10.5	3.5	2.8	3.4	6.2	15.2	58.4
Net profit, total <sup>a</sup>	Mil. dol.	81,185	9,417	2,487	2,264	2,602	4,712	12,311	47,381
Percent	Percent	100.0	11.6	3.1	2.8	3.2	5.8	15.2	58.4
<b>1979</b>									
Corporations	Number	(NA)	(NA)	1,918	979	571	470	341	225
Assets, total	Mil. dol.	1,242,985	124,853	42,007	34,082	40,336	73,172	169,599	758,937
Percent	Percent	100.0	10.0	3.4	2.7	3.2	5.9	13.6	61.1
Net profit, total <sup>a</sup>	Mil. dol.	98,698	10,119	2,720	2,347	2,898	5,347	13,412	61,854
Percent	Percent	100.0	10.3	2.8	2.4	2.9	5.4	13.6	62.7
<b>1980</b>									
Corporations	Number	(NA)	(NA)	1,777	941	590	491	369	244
Assets, total	Mil. dol.	1,384,474	126,639	43,569	34,930	41,963	75,284	179,859	882,129
Percent	Percent	100.0	9.1	3.1	2.5	3.0	5.4	13.0	63.7
Net profit, total <sup>a</sup>	Mil. dol.	92,443	7,770	2,235	1,904	2,479	4,532	11,485	62,041
Percent	Percent	100.0	8.4	2.4	2.1	2.7	4.9	12.4	67.1

NA. Not available. <sup>1</sup> Source: U.S. Securities and Exchange Commission. <sup>2</sup> Data derived from U.S. Internal Revenue Service, *Statistics of Income*, annual.

<sup>a</sup> After taxes.

Source: Except as noted, U.S. Federal Trade Commission, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*.

## NO. 923. LARGEST INDUSTRIAL CORPORATIONS—SALES, ASSETS, NET INCOME, AND EMPLOYEES, BY GROUP RANK: 1970 TO 1980

[Sales, assets, and net income in billions of dollars; employees in thousands, except percent. Excludes large privately owned companies that do not publish sales. Includes service and rental revenues, but companies must derive more than 50 percent of revenues from manufacturing or mining for years ending not later than Dec. 31 of year stated, except 1980, no later than January; excludes excise taxes collected by manufacturer]

RANK BY SALES GROUP	SALES			ASSETS <sup>1</sup>			NET INCOME <sup>2</sup>			EMPLOYEES <sup>3</sup>		
	1970	1975	1980	1970	1975	1980	1970	1975	1980	1970	1975	1980
First 500 largest	463.9	865.2	1,650.3	432.1	668.5	1,175.5	21.7	37.8	81.2	14,608	14,413	15,910
Lowest hundred	19.9	34.8	55.6	16.8	19.8	32.1	.8	-.8	-4.4	697	471	493
Second hundred	28.8	49.0	81.6	23.2	35.5	56.8	1.1	1.6	3.3	1,044	993	1,038
Third hundred	43.6	78.5	137.2	39.0	59.9	101.3	1.4	3.2	6.4	1,500	1,570	1,706
Fourth hundred	82.7	141.8	260.6	74.5	113.7	200.8	3.8	6.3	13.0	2,662	2,701	3,090
Highest hundred	288.9	581.1	1,115.2	278.6	439.5	784.4	14.5	27.5	62.9	8,706	8,679	9,582
Second 500 largest	48.3	82.6	120.0	38.6	60.9	86.9	1.5	3.3	6.0	1,720	1,881	1,702
Percent of total, first 500:												
Lowest hundred	4.3	4.0	3.4	3.9	3.0	2.7	3.8	-2.1	-5.4	4.8	3.3	3.1
Second hundred	6.2	5.7	4.9	5.4	5.3	4.8	4.9	4.2	4.0	7.1	6.9	6.5
Third hundred	9.4	9.1	8.3	9.0	8.0	8.6	6.6	8.5	7.9	10.3	10.8	10.7
Fourth hundred	17.8	16.4	15.8	17.2	17.0	17.1	17.6	16.7	16.0	18.2	18.7	19.4
Highest hundred	62.3	64.9	67.6	64.5	65.7	66.7	67.1	72.8	77.5	60.0	60.2	60.2

<sup>1</sup> Total assets employed in business at end of fiscal year, less depreciation and depletion. <sup>2</sup> After taxes, special charges, and credits. Minus sign (−) indicates net loss. <sup>3</sup> As of year end, or yearly average.

Source: Time, Inc., New York, N.Y., *The Fortune Directory*, May and June issues. (Copyright.)

# Nonresidential Business Capital

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## NO. 924. FIXED NONRESIDENTIAL BUSINESS CAPITAL—COST VALUATION IN CURRENT AND CONSTANT (1972) DOLLARS: 1960 TO 1980

**[In billions of dollars.** Stocks as of Dec. 31; depreciation over entire calendar year. Data refer to privately owned assets and are based on the fixed capital formation components of the gross national product. Excludes residential capital and government enterprises; includes nonprofit institutions. Gross stocks allow for retirement; net stocks allow for retirement and depreciation. Estimates are based on straight-line depreciation and 85 percent of service lives given in *Bulletin F*, Internal Revenue Service. For single-year figures prior to revisions issued in 1981 and data in constant (1958) dollars, see *Historical Statistics of the United States, Colonial Times to 1970*, series F 480-527.]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
CURRENT DOLLARS											
<b>All Industries:</b> <sup>1</sup>											
Gross stocks .....	685.9	851.6	1,363.6	1,822.6	2,262.1	2,470.6	2,670.8	3,003.9	3,410.3	3,899.6	4,501.1
Equipment .....	336.4	411.5	645.1	826.9	1,010.8	1,157.3	1,277.7	1,433.6	1,612.6	1,816.0	2,125.3
Structures .....	349.5	440.1	718.6	995.7	1,251.3	1,313.3	1,393.0	1,570.3	1,797.7	2,083.6	2,375.8
Net stocks .....	380.2	487.2	807.3	1,078.4	1,334.7	1,440.8	1,542.8	1,726.8	1,954.4	2,232.2	2,561.8
Equipment .....	181.9	226.7	368.9	471.2	576.0	651.4	712.5	797.6	896.1	1,008.4	1,171.2
Structures .....	198.3	260.5	438.4	607.3	758.7	789.4	830.3	929.3	1,058.3	1,223.8	1,390.6
Depreciation .....	36.2	43.9	69.8	90.7	106.9	126.8	139.0	154.4	174.9	199.5	229.6
Equipment .....	24.8	30.0	47.5	60.9	70.2	84.8	94.7	106.0	119.4	135.4	154.9
Structures .....	11.4	13.9	22.2	29.8	36.7	42.0	44.4	48.3	55.5	64.0	74.7
<b>Manufacturing:</b>											
Gross stocks .....	179.4	217.2	343.6	429.5	529.2	577.3	623.0	703.1	797.7	909.5	1,063.4
Equipment .....	103.3	126.1	198.1	242.0	299.4	348.3	386.0	436.7	497.9	569.0	678.6
Structures .....	76.1	91.1	145.5	187.4	229.7	229.1	237.0	264.4	299.8	340.4	384.7
Net stocks .....	95.6	116.4	191.2	236.1	292.7	319.3	343.9	387.3	437.8	498.3	580.2
Equipment .....	54.7	68.2	112.3	136.0	170.4	198.2	219.0	248.8	281.8	321.8	381.4
Structures .....	40.9	48.1	78.9	100.0	122.3	121.2	124.8	138.5	155.1	176.5	198.7
Depreciation .....	10.0	12.0	18.9	23.0	26.5	31.6	34.5	38.5	43.5	49.8	57.7
Equipment .....	7.3	8.8	14.0	16.7	19.0	23.3	26.1	29.5	33.4	38.3	44.7
Structures .....	2.7	3.1	4.9	6.3	7.5	8.3	8.4	8.9	10.0	11.5	13.0
<b>Nonfarm nonmfng:</b>											
Gross stocks .....	452.6	570.4	927.2	1,271.8	1,581.5	1,728.6	1,866.0	2,094.2	2,375.3	2,718.1	3,127.1
Equipment .....	199.6	246.7	394.9	519.4	629.9	716.4	787.1	877.4	981.8	1,097.1	1,277.7
Structures .....	253.0	323.7	532.3	752.4	951.7	1,012.2	1,078.9	1,216.8	1,393.5	1,621.1	1,849.4
Net stocks .....	255.0	385.0	563.1	772.9	954.8	1,026.4	1,093.9	1,219.9	1,379.4	1,577.1	1,804.1
Equipment .....	109.9	138.0	228.3	299.2	360.3	401.5	434.9	483.1	540.7	604.1	698.4
Structures .....	145.1	196.9	334.7	473.7	594.5	624.9	658.9	736.8	838.7	973.0	1,105.7
Depreciation .....	23.0	28.3	45.7	61.4	72.8	86.2	94.6	104.7	118.8	135.2	155.2
Equipment .....	14.8	18.2	29.4	39.2	45.4	54.5	60.6	67.5	75.9	85.7	97.1
Structures .....	8.2	10.1	16.2	22.2	27.4	31.7	34.0	37.2	42.9	49.5	58.1
CONSTANT (1972) DOLLARS											
<b>All industries:</b> <sup>1</sup>											
Gross stocks .....	977.9	1,155.3	1,452.6	1,642.8	1,714.7	1,766.9	1,821.9	1,888.0	1,963.6	2,045.4	2,116.8
Equipment .....	427.4	504.8	655.1	774.3	819.2	850.7	885.4	929.4	979.7	1,032.1	1,076.0
Structures .....	550.5	650.5	787.5	888.5	895.5	916.1	936.5	958.8	983.9	1,013.3	1,040.9
Net stocks .....	543.2	662.9	860.1	971.1	1,012.4	1,033.7	1,056.9	1,089.5	1,129.5	1,174.6	1,208.9
Equipment .....	229.7	276.9	379.7	441.3	467.8	480.4	495.7	519.2	547.5	577.1	597.9
Structures .....	313.6	386.0	480.3	529.8	544.6	553.3	561.2	570.3	582.0	597.5	611.0
Depreciation .....	49.5	56.2	76.2	87.3	92.1	96.1	99.6	103.8	108.8	114.3	119.5
Equipment .....	31.8	37.3	50.8	59.5	63.4	66.6	69.4	73.0	77.2	81.8	86.0
Structures .....	17.7	20.9	25.4	27.8	28.7	29.5	30.1	30.8	31.6	32.5	33.5
<b>Manufacturing:</b>											
Gross stocks .....	263.9	296.0	363.6	391.3	407.7	420.1	433.6	450.8	469.3	490.1	508.5
Equipment .....	136.2	157.3	204.4	227.8	241.5	250.3	265.4	281.0	298.0	317.3	334.4
Structures .....	127.7	138.7	159.1	163.6	166.2	167.1	168.2	169.7	171.3	172.8	174.1
Net stocks .....	140.4	158.1	202.2	215.3	225.9	232.7	239.7	249.2	259.1	270.7	279.5
Equipment .....	71.9	84.8	115.8	128.0	137.4	144.3	151.1	160.3	169.9	181.1	186.6
Structures .....	68.6	73.2	86.3	87.3	88.5	88.4	88.6	88.9	89.2	89.6	89.9
Depreciation .....	14.1	15.9	20.4	22.1	23.0	24.0	25.0	26.2	27.6	29.2	30.8
Equipment .....	9.6	11.1	14.8	16.3	17.1	18.0	19.0	20.1	21.5	23.0	24.6
Structures .....	4.4	4.8	5.6	5.8	5.9	6.0	6.0	6.1	6.1	6.2	6.2
<b>Nonfarm nonmfng:</b>											
Gross stocks .....	635.2	772.8	988.7	1,142.0	1,193.3	1,228.5	1,265.1	1,309.0	1,361.0	1,417.3	1,466.7
Equipment .....	246.5	299.6	405.0	485.8	514.6	532.0	551.6	577.3	606.1	638.8	664.0
Structures .....	388.6	473.2	583.7	656.2	678.7	696.5	713.5	731.7	752.9	778.5	802.7
Net stocks .....	359.2	456.1	600.7	693.2	721.1	732.6	745.8	765.6	793.2	824.2	848.4
Equipment .....	134.8	166.9	238.8	280.0	295.3	299.4	306.2	319.1	336.6	354.0	365.2
Structures .....	224.4	289.2	366.9	413.2	425.7	433.2	439.6	446.7	456.6	470.2	482.1
Depreciation .....	30.9	37.5	50.1	59.1	62.7	65.4	67.7	70.4	73.7	77.3	80.8
Equipment .....	18.5	22.5	31.5	38.4	41.3	43.3	45.0	47.1	49.8	52.6	55.1
Structures .....	12.4	15.0	18.5	20.7	21.5	22.1	22.7	23.3	23.9	24.7	25.6

<sup>1</sup> Includes farm, not shown separately.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, February 1981.

## Business Enterprise

**NO. 925. FIXED NONRESIDENTIAL BUSINESS CAPITAL—AVERAGE AGE OF GROSS STOCKS, CONSTANT (1972) COST VALUATION: 1960 TO 1980**

[Age in years. As of Dec. 31. See headnote, table 924, and *Historical Statistics, Colonial Times to 1970*, series F 516-527.]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
All Industries: Gross stocks .....	12.0	11.2	10.3	10.1	10.0	10.1	10.1	10.1	10.1	10.1	10.1
Equipment.....	7.1	7.0	6.5	6.3	6.3	6.4	6.4	6.4	6.4	6.3	6.4
Structures.....	15.9	14.5	13.5	13.4	13.4	13.5	13.7	13.8	13.9	13.9	14.0
Manufacturing: Gross stocks .....	10.8	10.7	9.8	9.8	9.7	9.6	9.5	9.5	9.4	9.3	9.2
Equipment.....	7.3	7.2	6.6	6.7	6.6	6.6	6.6	6.5	6.5	6.5	6.5
Structures.....	14.5	14.6	14.0	14.2	14.2	14.2	14.3	14.3	14.4	14.4	14.5
Nonfarm nonmfg.: Gross stocks .....	12.7	11.5	10.4	10.1	10.1	10.2	10.3	10.4	10.4	10.4	10.4
Equipment.....	7.0	6.9	6.4	6.2	6.1	6.3	6.3	6.3	6.3	6.2	6.3
Structures.....	16.3	14.3	13.2	13.0	13.1	13.2	13.4	13.6	13.7	13.7	13.8
Farm: Gross stocks .....	11.0	10.8	10.5	10.5	10.4	10.4	10.3	10.3	10.3	10.3	10.5
Equipment.....	7.0	7.2	6.7	6.6	6.5	6.4	6.4	6.4	6.4	6.4	6.6
Structures.....	16.1	15.4	15.2	15.4	15.4	15.3	15.3	15.2	15.1	15.1	15.2

Source: U.S. Bureau of Economic Analysis, unpublished data.

**NO. 926. GROSS PRIVATE DOMESTIC INVESTMENT IN CURRENT AND CONSTANT (1972) DOLLARS: 1970 TO 1980**

[In billion of dollars]

ITEM	1970	1973	1974	1975	1976	1977	1978	1979	1980
CURRENT DOLLARS									
Gross private domestic investment.....	144.2	230.0	228.7	206.1	257.9	322.3	375.3	415.8	395.3
Less: Capital consumption allowances <sup>1</sup> .....	88.1	116.5	136.0	159.3	175.0	196.0	221.2	253.6	287.3
Equals: Net private domestic investment.....	56.2	113.3	92.7	46.8	82.8	126.3	154.2	162.2	108.1
Fixed Investment.....	141.0	211.3	214.5	213.0	246.0	301.3	353.2	398.3	401.2
Nonresidential.....	103.9	143.3	156.6	157.7	174.1	205.5	242.0	279.7	296.0
Structures.....	38.7	51.0	55.9	55.4	58.8	64.6	78.7	96.3	106.8
Producers' durable equipment.....	65.2	92.3	100.7	102.3	115.3	140.9	163.3	183.4	187.1
Residential.....	37.1	68.0	57.9	55.3	72.0	95.8	111.2	118.6	105.3
CONSTANT (1972) DOLLARS									
Gross private domestic investment.....	158.5	217.5	195.5	154.8	184.5	213.5	229.7	232.6	203.6
Less: Capital consumption allowances <sup>1</sup> .....	96.1	110.8	116.1	120.8	125.1	130.3	135.0	141.6	147.5
Equals: Net private domestic investment.....	62.4	106.8	79.3	34.0	59.4	83.2	94.8	91.0	56.1
Fixed Investment.....	154.8	200.4	183.9	161.5	176.7	201.2	215.8	222.5	206.6
Nonresidential.....	113.8	138.1	135.7	119.3	125.6	140.6	153.4	162.3	158.4
Structures.....	43.9	47.4	43.6	38.3	39.5	40.5	44.6	48.5	48.4
Producers' durable equipment.....	69.9	90.7	92.1	81.1	86.1	100.0	108.8	114.8	110.0
Residential.....	41.0	62.3	48.2	42.2	51.2	60.6	62.4	59.1	48.1

<sup>1</sup> With capital consumption adjustment.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts, 1929-76*, and *1976-79*, and *Survey of Current Business*, August 1981.

**NO. 927. CAPITAL STOCK PER HOUR WORKED: 1950 TO 1979**

[In 1972 dollars. Represents the "capital/labor ratio"]

INDUSTRY AND 1972 INDUSTRY CODE	1950	1960	1970	1979	INDUSTRY AND 1972 INDUSTRY CODE	1950	1960	1970	1979
Public utilities, 49.....	69.49	109.96	134.42	167.09	Fabricated metals, 34.....	4.17	6.60	7.98	9.30
Petroleum, 29.....	34.25	46.26	63.19	69.60	Rubber and plastics, 30.....	5.86	8.76	9.00	8.96
Communication, 48.....	21.14	35.89	50.07	67.06	Finance and insurance, 60-64.....	5.15	6.57	8.65	10.56
Transportation, 41-47.....	34.56	44.13	43.29	37.60	Lumber and wood, 24.....	5.83	4.18	6.25	7.64
Primary metals, 33.....	13.99	23.31	27.46	29.65	Instruments, 38.....	5.84	6.19	7.47	7.52
Mining, 10-14.....	21.02	27.35	30.95	21.93	Textiles, 22.....	3.64	7.32	8.47	9.43
Tobacco, 21.....	17.21	22.53	23.93	35.93	Electric machinery, 36.....	4.99	4.80	7.24	8.47
Chemicals, 28.....	15.10	20.17	22.42	28.73	Printing and publishing, 27.....	6.01	4.84	6.28	7.01
Paper, 26.....	14.07	15.48	18.02	22.03	Wholesale, retail trade, 50-59.....	4.37	5.28	6.72	7.93
Stone, clay, glass, 32.....	8.29	12.22	14.55	15.29	Construction, 15-17.....	1.98	3.03	4.57	3.99
Transportation equipment, 37.....	8.84	8.26	11.91	13.48	Furniture and fixtures, 25.....	4.24	3.84	4.49	5.02
Nonelectric machinery, 35.....	6.78	8.40	10.42	11.72	Leather, 31.....	2.70	2.42	3.04	3.58
Food, 20.....	8.95	9.67	10.72	13.06	Apparel, 3.....	1.88	1.51	2.48	2.98
Services, 70-89.....	5.80	6.54	9.74	9.21					

Source: The Conference Board, New York, N.Y., *Economic Road Maps*, monthly. (Copyright.)

**No. 928. AVERAGE ANNUAL GROWTH RATE OF PHYSICAL CAPITAL PER HOUR WORKED IN PRIVATE BUSINESS: 1948 TO 1980**

[In percent. Rates based on capital valued in constant (1972) dollars. Excludes nonprofit institutions and government enterprises; see also headnote, table 924. Minus sign (—) denotes decrease]

ITEM	1948-1965	1965-1973	1973-1978	1978-1980	1973-1974	1974-1975	1975-1976	1976-1977	1977-1978	1978-1979	1979-1980
Total net .....	2.6	2.8	1.2	1.7	3.3	6.9	-1.1	-1.3	-1.7	-1	3.3
Equipment .....	3.7	4.6	2.9	3.1	5.5	8.3	-1	-4	-1	1.6	4.5
Structures .....	2.3	2.2	.2	1.0	6.8	-1.9	-2.6	-3.1	-1.0	-1.0	3.1
Inventories .....	2.9	3.2	.9	-1	3.4	3.1	-5	-3	-1.0	-6	6
Land .....	1.1	-4	-3	-1	.7	6.7	-1.8	-2.9	-3.9	-2.4	2.2

Source: U.S. Bureau of Labor Statistics, and Bureau of Economic Analysis, unpublished data.

**No. 929. BUSINESS EXPENDITURES FOR NEW PLANT AND EQUIPMENT: 1960 TO 1981**

[In billions of dollars, except percent. Excludes expenditures of agricultural business and current account outlays. Based on sample and subject to sampling variability; see text, p. 532. These figures do not agree with the fixed nonresidential investment data mainly because those data exclude investments for equipment, and include investment by farmers and certain outlays to current account. Minus sign (—) denotes decrease. See also *Historical Statistics, Colonial Times to 1970*, series V 306-332]

INDUSTRY	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981 <sup>1</sup>
Total nonfarm business .....	48.63	70.43	105.61	156.98	157.71	171.45	198.08	231.24	270.46	295.63	320.51
Manufacturing .....	16.36	25.41	36.99	53.21	54.92	59.95	69.22	79.72	98.68	115.81	127.88
Durable goods <sup>2</sup> .....	8.28	13.49	19.80	27.44	26.33	28.47	34.04	40.43	51.07	58.91	63.99
Primary metals .....	1.78	2.57	3.24	4.51	5.81	5.76	5.44	5.74	6.76	7.71	8.40
Electrical machinery .....	1.02	1.69	3.49	3.85	3.14	3.66	4.67	5.69	7.28	9.59	11.07
Machinery <sup>3</sup> .....	1.21	2.24	3.78	5.23	4.96	5.53	6.59	7.21	10.52	11.59	13.09
Transportation equip... .....	1.94	3.74	4.65	6.86	5.92	6.39	9.06	12.02	15.32	18.16	18.79
Percent motor veh. ....	75.8	80.2	65.6	62.6	56.6	56.7	64.2	60.0	54.2	49.8	51.5
Nondurable goods <sup>2</sup> .....	8.08	11.92	17.19	25.76	28.59	31.47	35.18	39.29	47.61	56.90	63.89
Food and beverage .....	1.35	1.87	3.32	4.03	4.02	4.80	5.12	5.97	6.62	7.39	8.41
Paper .....	.77	1.07	1.74	2.89	2.98	3.11	3.60	3.99	5.55	6.80	6.75
Chemicals .....	1.59	2.82	3.38	6.47	7.63	8.12	8.14	8.46	10.78	12.60	12.62
Petroleum .....	2.89	3.88	5.16	7.31	9.59	10.77	12.69	13.95	16.21	20.69	26.22
Nonmanufacturing .....	32.28	45.02	68.62	103.78	102.79	111.50	128.87	151.52	171.77	179.81	192.62
Mining .....	1.29	1.36	2.02	4.62	6.10	7.44	9.24	10.21	11.38	13.51	16.81
Transportation .....	3.19	5.46	6.95	8.23	8.68	8.89	9.40	10.68	12.35	12.09	12.14
Public utilities .....	5.40	6.49	13.03	19.83	19.98	22.37	26.79	29.95	33.96	35.44	37.26
Electric .....	3.85	4.76	10.56	16.64	16.65	18.75	22.23	24.63	27.65	28.12	28.93
Gas and other .....	1.54	1.73	2.46	3.19	3.33	3.62	4.56	5.32	6.31	7.32	8.33
Trade and services .....	16.15	22.13	29.77	47.73	46.23	49.30	56.54	68.66	79.26	81.79	85.22
Comm. and other <sup>4</sup> .....	6.25	9.58	16.85	23.30	21.80	23.51	26.90	32.02	34.83	36.99	41.09
Average annual percent change: <sup>5</sup>											
Total nonfarm bus....	7.58	7.8	8.4	10.4	.5	8.7	15.5	16.7	17.0	9.3	8.4
Manufacturing .....	7.56	9.2	7.7	9.5	3.2	9.2	15.5	15.2	23.8	17.4	10.4
Nonmanufacturing .....	7.59	6.9	8.8	10.9	-1.0	8.5	15.6	17.6	13.4	4.7	7.1

<sup>1</sup> Estimates based on expected capital expenditures as reported by business in late April and May 1981. <sup>2</sup> Includes industries not shown separately. <sup>3</sup> Includes equipment. <sup>4</sup> Excludes electrical. <sup>5</sup> Includes construction; social services and membership organizations; and forestry, fisheries, and agricultural services. <sup>6</sup> Change from prior year shown here; e.g., 1965 from 1960, except as noted. For explanation of average annual percent change, see Guide to Tabular Presentation. <sup>7</sup> Change from 1955.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, monthly.

**No. 930. DETERMINANTS OF BUSINESS FIXED INVESTMENT: 1960 TO 1980**

[Percent, except as noted. 1980 preliminary. GNP=Gross national product]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980
Real investment as percent of real GNP ....	9.1	10.5	10.5	10.2	11.0	10.9	9.7	9.7	10.3	10.7	11.0	10.7
Capacity utilization rate in mfg. <sup>1</sup> .....	80.2	89.6	79.3	83.5	87.6	83.8	72.9	79.5	81.9	84.4	85.7	79.0
Nonfinancial corporations:												
Cash flow as percent of GNP <sup>2</sup> .....	8.9	10.6	7.8	8.6	8.0	7.0	9.0	9.3	9.6	9.3	8.8	8.6
Rate of return before taxes—												
On depreciable assets <sup>3</sup> .....	11.2	16.2	9.5	10.7	10.6	8.0	8.8	9.5	10.1	9.8	8.9	7.7
On stockholders' equity <sup>4</sup> .....	9.9	15.5	8.9	11.3	14.5	13.3	9.5	9.5	11.2	11.9	12.1	9.9
Ratio of market value to replacement cost of net assets <sup>5</sup> .....	.96	1.25	.86	1.01	.93	.66	.66	.74	.65	.60	.56	.53

<sup>1</sup> Federal Reserve Board Index. For capacity by stage of processing, see table 1409. <sup>2</sup> Cash flow defined as after-tax profits plus capital consumption allowance plus inventory valuation adjustment. <sup>3</sup> Profits plus capital consumption adjustment and inventory valuation adjustment plus net interest paid divided by the stock of depreciable assets valued at current replacement cost. <sup>4</sup> Profits corrected for inflation effects divided by net worth (physical capital component valued at current replacement cost). <sup>5</sup> Equity plus interest-bearing debt divided by current replacement cost of net assets.

Source: U.S. Council of Economic Advisers, *Economic Report of the President*, annual. Data from U.S. Bureau of Economic Analysis and the Board of Governors of the Federal Reserve System.

## NO. 931. COMPOSITE INDEXES OF CYCLICAL INDICATORS: 1970 TO 1980

[1980 figures are preliminary. See source for discussion of composite indexes. Minus sign (-) denotes decrease]

ITEM	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980
<b>LEADING INDICATORS</b>										
<b>Composite index, 1967=100</b>	104.4	124.9	131.8	122.1	114.8	128.8	136.4	141.8	140.1	131.3
Indexes:										
Net business formation, 1967=100	107.1	115.5	115.5	111.2	108.8	117.2	126.5	132.9	131.7	121.1
Building permits, <sup>a</sup> 1967=100	118.1	192.2	157.1	92.2	80.9	111.8	144.9	145.4	123.6	96.6
Common stock prices, <sup>b</sup> 1941-43=100	83.2	109.2	107.4	82.8	86.2	102.0	98.2	96.0	103.0	116.8
Percent—										
Layoff rate, manufacturing	1.8	1.1	.9	1.5	2.1	1.3	1.1	.9	1.1	1.7
Change in sensitive prices <sup>c</sup>	.4	.8	1.9	2.5	.1	.9	.5	1.2	2.0	1.5
Change in total liquid assets <sup>d</sup>	.5	1.0	1.0	.8	.8	.9	1.0	1.0	1.0	.8
Vendor companies reporting slower deliveries	51	63	88	66	30	54	55	64	63	40
Avg. workweek, manufacturing <sup>e</sup> (hours)	39.8	40.5	40.7	40.0	39.5	40.1	40.3	40.4	40.2	39.7
Net change in inventories (1972 dol.) <sup>f</sup> (bil. dol.)	1	13	28	(2)	-19	10	14	21	7	-9
Plant and equip. contracts and orders (1972 dol.) (bil. dol.)	105	122	149	149	117	132	146	172	182	167
New orders, manufacturing, consumer goods and materials (1972 dol.) (bil. dol.)	327	388	434	396	342	391	433	459	451	405
Money supply (M2) <sup>g</sup> (1972 dol.) (bil. dol.)	648	769	786	753	754	808	857	887	849	814
<b>COINCIDENT INDICATORS</b>										
<b>Composite index, 1967=100</b>	108.8	118.1	127.4	125.3	115.5	123.7	131.3	140.1	145.1	140.4
Industrial production Index, 1967=100	107.8	119.7	129.8	129.3	117.8	130.5	138.2	146.1	152.5	147.1
Employees, nonagric. payrolls (mil.)	70.9	73.7	76.8	78.3	76.9	79.4	82.5	86.7	89.8	90.6
Personal income less transfer pmts. (1972 dol.) (bil. dol.)	790	847	895	883	888	909	954	1,005	1,044	1,043
Sales, mfg. and trade (1972 dol.) (bil. dol.)	1,380	1,559	1,677	1,662	1,558	1,671	1,772	1,878	1,913	1,840
<b>LAGGING INDICATORS</b>										
<b>Composite index, 1967=100</b>	115.5	107.0	122.9	138.9	126.5	119.8	125.4	143.1	166.4	176.8
Index of labor cost, <sup>h</sup> 1967=100	112.5	113.4	117.4	127.9	143.6	145.2	154.1	164.2	175.8	195.1
Percent—										
Ratio, consumer installment debt to personal income	12.6	13.0	13.5	13.2	12.6	12.9	13.8	14.5	14.8	14.1
Average prime rate charged by banks	7.9	5.2	8.0	10.8	7.9	6.8	6.8	9.1	12.7	15.3
Average unemployment duration (wks.)	8.6	12.0	10.0	8.8	14.2	15.8	14.3	11.9	10.8	11.9
Inventories, mfg. and trade (1972 dol.) (bil. dol.)	197	208	220	227	217	235	246	268	255	263
Commercial and industrial loans outstanding (bil. dol.)	85	80	97	116	118	109	113	126	147	164

<sup>a</sup> Less than \$500,000,000. <sup>b</sup> New private housing units authorized. <sup>c</sup> Standard and Poor, 500 stocks. <sup>d</sup> Producer price index, crude materials. <sup>e</sup> 4-weighted 4-term moving average placed at the terminal month of the workers. <sup>f</sup> Changes in book value. <sup>g</sup> See table 871. <sup>h</sup> Cost per unit of output in manufacturing.

Source: U.S. Bureau of Economic Analysis, *Business Conditions Digest*, monthly.

## NO. 932. INTERNATIONAL COMPOSITE INDEXES: 1960 TO 1980

[Average annual percent changes. 1970=100. Minus sign (-) denotes decrease]

YEARS	Total	United States	Canada	France	Italy	Japan	United Kingdom	West Germany
<b>LEADING INDEX</b>								
1960-1965	4.5	5.3	5.9	4.6	3.4	4.3	1.3	2.8
1965-1970	2.6	.8	3.0	5.5	5.2	11.5	1.0	3.1
1970-1975	3.2	2.8	6.2	3.9	3.8	4.3	1.7	2.4
1975-1980	5.1	3.8	6.1	5.7	4.2	11.3	2.5	5.2
1974-1975	-3.6	-2.9	-1.2	-6.8	2.0	-12.8	-7	2.1
1975-1976	10.0	11.0	3.9	7.4	3.5	18.3	6.4	7.7
1976-1977	4.8	6.7	3.6	2.0	2.1	1.6	5.0	2.5
1977-1978	4.4	4.0	7.3	4.9	3.9	7.0	1.0	4.0
1978-1979	6.3	2.1	11.5	9.4	5.1	21.1	2.8	8.4
1979-1980	.4	-4.4	4.2	4.7	6.4	11.6	-2.5	3.5
<b>COINCIDENT INDEX</b>								
1960-1965	6.1	5.2	5.9	8.3	3.8	13.7	4.8	6.4
1965-1970	5.0	3.9	4.5	6.0	5.8	13.1	2.5	5.3
1970-1975	2.4	1.6	5.4	3.9	2.4	4.5	2.3	1.6
1975-1980	3.9	4.4	2.8	3.4	3.4	3.8	2.0	4.0
1974-1975	-4.9	-6.6	.6	-5.0	-4.3	-2.1	-3.4	-2.4
1975-1976	5.6	7.3	4.8	4.9	4.4	4.4	.2	3.9
1976-1977	5.0	6.5	1.6	3.8	.9	4.8	1.9	3.6
1977-1978	5.8	7.3	3.0	2.7	2.2	4.7	5.9	4.0
1978-1979	4.2	4.2	3.9	3.6	4.8	4.1	4.7	5.1
1979-1980	-.8	-2.8	.9	2.4	4.9	1.3	-2.5	3.1

Source: Rutgers Center for International Business Cycle Research, Newark, New Jersey, *International Economic Indicators*, monthly.

## No. 933. BUSINESS CYCLE EXPANSIONS AND CONTRACTIONS—MONTHS OF DURATION: 1919 TO 1980

[The lower turning point of a cycle is considered a trough, the upper turning point a peak. Business cycle reference data are determined by the National Bureau of Economic Research, Inc.]

BUSINESS CYCLE REFERENCE DATE		Contraction (trough from previous peak)	Expansion (trough to peak)	LENGTH OF CYCLE (mo.)	
				Trough from previous trough	Peak from previous peak
March 1919.....	January 1920.....	7	10	51	17
July 1921.....	May 1923.....	18	22	28	40
July 1924.....	October 1926.....	14	27	36	41
November 1927.....	August 1929.....	13	21	40	34
March 1933.....	May 1937.....	43	50	64	93
June 1938.....	February 1945.....	13	80	63	93
October 1945.....	November 1948.....	8	37	88	45
October 1949.....	July 1953.....	11	45	48	56
May 1954.....	August 1957.....	10	39	55	49
April 1958.....	April 1960.....	8	24	47	32
February 1961.....	December 1969.....	10	106	34	116
November 1970.....	November 1973.....	11	38	117	47
March 1975.....	January 1980.....	16	58	52	74
July 1980.....		6	(X)	64	(X)
Average, all cycles:					
1919-1945 (6 cycles).....		18	35	53	53
1945-1980 (7 cycles).....		10	49	60	60
Average, peacetime cycles:					
1919-1945 (5 cycles).....		20	28	46	45
1945-1980 (5 cycles).....		10	39	49	49

X Not applicable.

Source: U.S. Bureau of Economic Analysis, *Business Conditions Digest*, July 1981.

## No. 934. MANUFACTURING AND TRADE—SALES AND INVENTORIES IN CURRENT AND CONSTANT (1972) DOLLARS: 1960 TO 1980

[In billions of dollars, except ratios. See *Historical Statistics, Colonial Times to 1970*, series V78-107, for single year figures prior to revisions issued in 1981]

ITEM	1960	1965	1970 <sup>1</sup>	1974	1975	1976	1977	1978	1979	1980
CURRENT DOLLARS										
Sales, average monthly.....	61	80	107	178	182	204	227	256	295	321
Manufacturing.....	31	41	53	85	87	99	111	125	144	154
Retail trade.....	18	24	31	45	49	55	60	67	75	80
Merchant wholesalers.....	12	16	24	48	47	51	56	65	76	87
Inventories <sup>2</sup> .....	95	121	178	286	287	314	342	384	431	462
Manufacturing.....	54	68	102	158	158	170	180	198	242	258
Retail trade.....	27	34	44	71	72	79	89	102	109	112
Merchant wholesalers.....	14	18	33	57	57	64	72	83	94	106
Inventory-sales ratio <sup>3</sup> .....	1.56	1.45	1.62	1.45	1.56	1.47	1.44	1.41	1.44	1.45
Manufacturing.....	1.75	1.60	1.90	1.65	1.83	1.66	1.59	1.52	1.58	1.65
Retail trade.....	1.45	1.39	1.41	1.48	1.44	1.38	1.39	1.42	1.44	1.39
Merchant wholesalers.....	1.22	1.15	1.29	1.07	1.21	1.19	1.21	1.21	1.17	1.15
CONSTANT (1972) DOLLARS <sup>4</sup>										
Sales, average monthly.....	76	98	116	140	131	141	150	159	182	156
Manufacturing.....	38	50	56	68	62	67	71	76	77	73
Retail trade.....	23	28	34	39	40	42	45	46	47	46
Merchant wholesalers.....	15	19	26	33	30	31	34	36	38	37
Inventories.....	120	149	194	233	225	235	246	258	265	263
Manufacturing.....	70	87	113	131	127	131	134	139	146	145
Retail trade.....	30	37	46	58	58	59	63	67	67	65
Merchant wholesalers.....	20	25	35	44	42	45	49	52	53	53
Inventory-sales ratios <sup>5</sup> .....	1.60	1.48	1.70	1.74	1.68	1.64	1.61	1.59	1.65	1.66
Manufacturing.....	1.66	1.69	2.08	2.03	2.02	1.92	1.84	1.80	1.92	1.98
Retail trade.....	1.32	1.26	1.37	1.52	1.37	1.36	1.38	1.41	1.41	1.41
Merchant wholesalers.....	1.37	1.27	1.33	1.42	1.42	1.43	1.43	1.39	1.39	1.39

<sup>1</sup> Beginning 1970, data not comparable with earlier years due to revised procedures. <sup>2</sup> Book value; seasonally adjusted end-of-year data. See text, page 532. <sup>3</sup> Average inventories to average monthly sales. Average inventories based on weighted averages of end-of-month figures. <sup>4</sup> Source: 1960 to 1976, U.S. Bureau of Economic Analysis, *Business Statistics*, annual thereafter, *Survey of Current Business*, July issues. <sup>5</sup> End of fourth qtr. inventories to average mo. sales for fourth qtr.

Source: Except as noted, U.S. Bureau of the Census, *Current Business Reports*, monthly.

## Business Enterprise

NO. 935. 500 LARGEST INDUSTRIAL CORPORATIONS—SELECTED FINANCIAL ITEMS, BY INDUSTRY:  
1979 TO 1980

[Figures are medians based on sales rank in 1979 and 1980. See headnote, table 923. Minus sign (–) denotes decrease. For definition of median, see Guide to Tabular Presentation]

SIC <sup>1</sup> code	INDUSTRY	CHANGES IN PROFITS (percent)		SALES PER EMPLOYEE (\$1,000)		SALES PER DOLLAR OF STOCKHOLD- ER'S EQUITY (dol.)		RETURN ON STOCKHOLD- ER'S EQUITY (percent)		RETURN ON SALES (percent)		TOTAL RETURN TO INVESTORS <sup>2</sup> (percent)	
		1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
(x)	Total.....	27.3	3.6	71.6	78.1	2.97	3.00	15.9	14.4	5.2	4.8	21.3	21.1
29	Petroleum refining.....	78.3	25.4	356.1	441.5	3.43	4.00	19.1	19.4	6.6	5.5	81.3	53.1
10	Mining, crude-oil production.....	73.2	45.4	129.3	177.7	1.90	2.15	16.7	21.0	8.7	9.2	80.5	34.1
49	Beverages.....	18.9	3.4	92.1	129.4	3.03	2.88	15.7	15.6	5.1	4.8	1.4	18.4
48	Broadcasting <sup>3</sup> .....	9.4	-4.3	89.6	115.9	2.91	3.00	22.2	18.0	8.3	6.5	37.0	12.5
20	Food.....	14.5	10.8	100.2	103.0	4.89	4.58	14.4	14.5	3.0	3.0	15.4	9.8
28	Chemicals.....	24.0	2.7	84.2	100.5	2.48	2.44	15.2	13.9	6.0	5.2	33.9	16.7
33	Metal manufacturing.....	31.4	-7.6	89.6	96.0	2.94	2.81	15.8	12.9	4.6	4.1	20.6	20.7
26	Paper, fiber, wood products.....	25.1	-11.4	82.5	93.9	2.46	2.27	15.9	12.8	6.3	5.0	20.8	17.3
21	Tobacco.....	24.3	15.2	89.7	91.4	2.38	2.51	18.4	19.8	7.7	7.9	14.7	32.5
43	Soaps, cosmetics.....	14.7	7.6	76.6	84.9	2.83	2.90	17.4	16.9	6.4	5.9	-7.0	5.2
37	Transport equipment <sup>4</sup> .....	16.1	1.3	74.0	81.1	4.58	4.74	18.1	14.4	4.2	4.1	25.2	35.9
42	Pharmaceuticals.....	15.5	13.8	66.0	73.5	2.01	1.98	18.0	17.9	8.9	9.1	13.5	29.3
27	Publishing, printing.....	15.3	8.9	66.5	71.5	2.27	2.40	17.9	15.9	8.2	6.2	21.6	21.2
32	Glass, concrete, abrasives, gypsum.....	13.2	-13.4	64.7	71.3	2.74	2.63	14.0	11.3	4.9	3.7	15.0	10.5
45	Industrial and farm equipment.....	16.3	3.9	59.7	69.8	2.86	2.65	15.4	13.3	5.4	4.3	17.5	24.0
40	Motor vehicles.....	16.3	-52.7	68.1	68.8	3.80	3.27	15.7	8.1	4.1	2.6	12.0	3.4
34	Metal products.....	21.4	4.0	58.8	67.9	3.19	3.03	16.0	15.3	5.0	4.7	22.1	20.1
41	Aerospace.....	26.6	6.5	55.5	61.7	4.11	4.04	19.2	16.2	4.8	4.1	44.5	40.5
30	Rubber, plastic products.....	17.8	-37.6	60.1	50.6	3.60	3.64	8.2	5.0	2.8	1.5	-6.7	28.1
47	Musical instr., toys, sporting goods.....	7.0	1.6	47.1	59.0	3.15	2.66	12.1	12.6	3.9	3.7	5.1	22.4
38	Measuring, scientific, photo, equip.....	18.1	24.6	45.4	54.4	2.31	2.01	16.1	17.1	6.9	6.9	23.1	28.4
35	Electronics, appliances.....	18.4	16.6	48.0	54.0	3.29	3.10	16.3	16.2	5.2	5.3	19.8	35.1
44	Office equipment (incl. computers).....	24.6	14.2	45.7	49.9	2.30	2.35	15.9	15.1	7.0	6.0	14.7	20.0
22	Textiles, vinyl flooring.....	9.1	-26.5	40.5	46.3	3.16	3.08	11.7	8.1	3.8	2.8	17.4	10.4
23	Apparel.....	21.2	9	32.9	38.8	3.03	3.49	15.6	12.8	4.4	3.6	14.7	28.2

<sup>1</sup>Standard Industrial Classification. See text, p. 776. <sup>2</sup>Includes both price appreciation and dividend yield, i.e., to an investor in the company's stock. <sup>3</sup>Includes motion picture and distribution. <sup>4</sup>Excludes motor vehicles and aircraft.

Source: Time, Inc., New York, N.Y., *The Fortune Directory*, May issues. (Copyright).

## NO. 936. FOREIGN-OWNED U.S. FIRMS, BY PERCENT OF FOREIGN OWNERSHIP, BY INDUSTRY, AND BY COUNTRY: 1979

[Covers only firms operating at more than one U.S. location and having 50 or more employees. A firm was defined as foreign-owned if ten percent or more of its equity was owned by a foreign entity. Domicile country refers to location of the home office of the owning entity]

ITEM	Firms <sup>1</sup>	Estab- lish- ments <sup>1</sup>	Em- ploy- ment <sup>2</sup> (1,000)	Annual payroll (mil. dol.)	DOMICILE COUNTRY	Firms <sup>1</sup>	Estab- lish- ments <sup>1</sup>	Em- ploy- ment <sup>2</sup> (1,000)	Annual payroll (mil. dol.)
Total <sup>3</sup> .....	1,365	30,962	1,655.8	25,899	All countries....	1,365	30,962	1,655.8	25,899
Foreign ownership:									
10-49 percent.....	228	8,648	412.5	6,365	Australia.....	20	232	19.3	197
50-99 percent.....	277	8,173	391.3	6,100	Bahamas.....	6	111	7.4	67
100 percent.....	826	13,736	828.6	13,061	Belgium <sup>4</sup> .....	33	597	34.2	579
Industry:					Bermuda.....	20	459	26.7	423
Agriculture.....	45	233	8.1	102	Canada.....	218	4,871	208.1	3,264
Mining.....	61	434	45.6	1,137	France.....	96	1,920	114.2	1,858
Construction.....	83	338	42.3	867	Germany, Fed. Rep. of.....	131	4,993	302.1	4,632
Manufacturing.....	677	4,375	820.3	13,492	Great Britain.....	223	5,923	350.4	5,308
Transportation, communication, public utilities.....	172	1,362	35.3	710	Hong Kong.....	14	109	5.4	70
Wholesale trade.....	740	7,339	172.9	3,273	Japan.....	188	1,616	75.1	1,237
Retail trade.....	164	11,280	318.6	3,085	Netherlands.....	83	4,587	221.8	3,660
Finance, insurance, real estate.....	219	3,705	112.7	2,012	Neth. Antilles.....	30	1,666	77.3	1,186
Services.....	267	1,895	100.1	1,220	Panama.....	13	152	12.7	219
					Sweden.....	40	443	29.7	493
					Switzerland.....	122	2,086	120.0	1,735
					Other.....	128	1,197	59.4	971

<sup>1</sup>For definition, see text p. 531. <sup>2</sup>For week including March 12. <sup>3</sup>Includes percent not specified and industries not shown separately. <sup>4</sup>Includes Luxembourg.

Source: U.S. Bureau of the Census, *Selected Characteristics of Foreign-Owned U.S. Firms: 1979*.

# Capital Expenditures—Corporate Funds

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## No. 937. CAPITAL EXPENDITURES BY MAJORITY-OWNED FOREIGN AFFILIATES OF U.S. MULTINATIONAL COMPANIES: 1970 TO 1980

[Represents expenditures to acquire, add to, or improve property, plant, and equipment. Data are universe estimates based on Bureau of Economic Analysis' semiannual sample survey. The latest survey, taken in Dec. 1980, covered about 5,000 majority-owned foreign affiliates. See *Survey of Current Business*, July 1980, p. 32.]

INDUSTRY AND AREA OR COUNTRY	EXPENDITURES (bill. dol.)								PERCENT OF TOTAL			
	1970	1975	1976	1977	1978	1979	1980		1970	1975	1979	1980
	14.1	26.8	24.7	27.5	30.7	38.4	47.8	100.0	100.0	100.0	100.0	100.0
Total <sup>1</sup>	14.1	26.8	24.7	27.5	30.7	38.4	47.8	100.0	100.0	100.0	100.0	100.0
Mining and smelting	1.2	1.2	.9	.6	.6	1.6	8.5	4.5	1.9	3.3	3.3	3.3
Petroleum	4.0	8.9	7.9	9.3	10.0	11.6	15.0	28.4	33.2	31.1	31.5	31.5
Manufacturing <sup>1</sup>	6.5	11.3	10.9	12.7	14.6	18.8	22.9	46.1	42.2	49.8	47.9	47.9
Food products	.4	.7	.7	.8	1.0	1.2	1.7	2.8	3.3	3.3	3.6	3.6
Chemicals and allied products	1.2	2.5	2.7	2.4	2.5	3.4	3.6	8.5	9.3	8.4	7.5	7.5
Machinery (except electrical)	1.8	2.8	2.7	3.6	4.4	5.7	6.2	11.3	10.4	14.2	13.0	13.0
Electrical machinery	.6	.9	.8	1.0	1.1	1.3	1.5	4.3	3.4	3.3	3.1	3.1
Transportation equipment	1.0	1.4	1.4	1.8	2.2	3.3	5.1	7.1	5.2	9.8	10.7	10.7
Trade	1.0	2.4	1.6	1.8	2.0	2.4	3.1	7.1	9.0	6.3	6.6	6.6
By area of affiliate:												
Developed countries	10.1	18.8	17.8	20.4	23.3	29.0	36.0	71.6	70.1	75.1	75.4	75.4
Canada	3.0	5.0	5.6	6.2	6.2	7.7	10.4	21.3	18.7	21.0	21.9	21.9
Europe	5.7	11.7	10.5	12.4	14.5	18.6	21.9	40.4	43.7	47.1	45.8	45.8
European Communities <sup>2</sup>	5.1	9.9	8.8	10.7	12.6	15.8	18.9	36.2	36.9	40.4	39.6	39.6
Other Europe	.6	1.8	1.6	1.7	2.0	2.6	2.9	4.3	6.7	6.7	6.2	6.2
Japan	.5	.8	.6	.8	1.1	1.3	1.7	3.5	3.0	3.4	3.6	3.6
Australia, New Zealand, South Africa	.9	1.2	1.0	1.1	1.4	1.4	2.0	6.4	4.5	3.5	4.2	4.2
Developing countries	3.3	6.4	5.1	5.6	6.3	7.8	10.0	23.4	23.0	21.0	21.0	21.0
Latin America	2.0	3.1	2.6	2.6	3.1	3.8	5.1	14.2	11.6	10.7	10.6	10.6
Africa (excl. South Africa)	.5	.7	.6	.7	.9	.9	1.3	3.5	2.6	2.8	2.6	2.6
Middle East	.2	1.3	1.1	1.4	1.1	.9	.8	1.4	4.9	3.0	1.8	1.8
Other Asia and Pacific	.6	1.3	.8	.8	1.2	2.1	2.9	4.3	4.9	4.5	6.0	6.0
International and unallocated	.7	1.7	1.8	1.5	1.1	1.7	1.7	5.0	6.3	4.0	3.6	3.6

<sup>1</sup> Includes other industries not shown separately.

<sup>2</sup> Includes Belgium, Denmark, France, Germany, Ireland, Italy, Luxembourg, the Netherlands, and the United Kingdom.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, March issues.

## No. 938. CORPORATE FUNDS—SOURCES AND USES: 1960 TO 1980

[In billions of dollars, except percent. Covers nonfarm nonfinancial corporate business]

SOURCE AND USE	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980
<b>Sources, total</b>	<b>47.6</b>	<b>91.1</b>	<b>107.7</b>	<b>201.5</b>	<b>164.9</b>	<b>220.3</b>	<b>259.8</b>	<b>320.4</b>	<b>375.4</b>	<b>318.0</b>
Internal	34.7	56.1	61.8	85.6	119.7	134.2	156.1	171.9	190.6	197.0
Domestic undistributed profits	7.9	18.5	7.6	32.4	34.0	43.8	52.3	60.6	71.0	59.6
IVA and CCA <sup>1</sup>	−2.0	1.7	−4.1	−41.7	−21.1	−27.5	−27.0	−36.4	−56.4	−57.9
Capital consumption allowances	26.8	32.6	51.8	78.7	93.8	103.6	115.2	128.1	145.6	163.7
Foreign earnings <sup>2</sup>	1.9	3.3	6.5	16.3	13.0	14.3	15.5	19.7	30.3	31.7
External <sup>3</sup>	12.9	35.1	45.9	115.8	45.2	56.1	103.7	148.5	184.8	121.0
Percent of total	27.1	38.5	42.6	57.5	27.4	39.1	39.8	46.3	49.2	38.0
Credit market funds, net	11.9	20.6	40.8	82.2	37.9	60.7	79.9	94.8	114.3	101.1
Securities and mortgages	7.5	9.3	32.2	39.2	49.3	48.7	46.1	49.2	52.5	62.0
Equity issues	1.4	—	5.7	4.1	9.8	10.5	2.7	2.6	3.5	11.4
Bonds and mortgages <sup>4</sup>	6.1	9.3	26.5	35.1	39.4	38.2	43.3	46.6	48.0	50.6
Loans and S.T. paper	4.5	11.4	8.5	43.0	−11.4	11.9	33.8	45.6	61.9	39.1
Other	1.0	14.4	5.1	33.7	7.3	25.4	23.8	53.7	70.4	19.9
Profit taxes payable	−2.2	2.2	−3.9	.3	−1.6	7.5	−1.6	2.6	—	−7.3
Trade debt	3.1	12.2	7.5	28.7	6.3	13.6	21.7	44.8	60.7	18.1
Foreign direct investments in U.S.	.1	.1	1.5	4.8	2.6	4.3	3.7	6.3	9.7	9.1
<b>Uses, total</b>	<b>40.6</b>	<b>82.2</b>	<b>100.8</b>	<b>193.4</b>	<b>151.1</b>	<b>199.5</b>	<b>231.6</b>	<b>295.6</b>	<b>346.0</b>	<b>286.6</b>
Capital expenditures	38.0	62.0	82.0	141.2	110.0	147.5	177.3	205.6	229.4	225.1
Increase in financial assets	2.7	20.2	18.8	52.2	41.2	52.0	54.2	90.0	116.6	61.5
Discrepancy (sources less uses)	7.0	9.0	6.9	8.1	13.8	20.8	28.3	24.8	29.4	31.4

<sup>1</sup> Represents zero.

<sup>2</sup> Inventory valuation and capital consumption adjustment.

<sup>3</sup> Net increases in liability.

<sup>4</sup> Includes industrial pollution control revenue bonds, issued by State and local governments.

Source: Board of Governors of the Federal Reserve System, *Flow of Funds Accounts*, forthcoming report.

## Business Enterprise

## NO. 939. CORPORATE PROFITS, TAXES, AND DIVIDENDS: 1960 TO 1980

[In billions of dollars. Covers corporations organized for profit. Represents profits to U.S. residents, without deduction of depletion charges and exclusive of capital gains and losses; intercorporate dividends from profits of domestic corporations are eliminated; net receipts of dividends and branch profits from abroad are added]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
Profits before taxes .....	49.8	77.2	75.4	125.6	136.7	132.1	166.3	192.6	223.3	255.4	245.5
Less: Income tax liability <sup>1</sup> .....	22.7	30.9	34.2	49.0	51.6	50.6	63.8	72.8	83.0	87.6	82.3
Equals: Profits after taxes .....	27.1	46.3	41.3	76.6	85.1	81.5	102.5	120.0	140.3	167.8	163.2
Less: Net dividends <sup>2</sup> .....	12.9	19.1	22.5	27.0	29.9	30.8	37.4	39.9	44.6	50.2	56.0
Equals: Undistributed profits .....	14.3	27.2	18.8	49.6	55.2	50.7	65.1	80.1	95.7	117.6	107.2
Capital consumption allowances <sup>3</sup> .....	25.3	37.4	56.6	73.7	81.5	89.4	96.3	110.4	122.9	139.5	158.3
Profits after tax plus capital consumption allowances .....	52.4	83.7	97.9	150.2	166.6	170.9	198.8	230.4	263.2	307.3	321.4

<sup>1</sup> Federal and State. <sup>2</sup> Disbursements to U.S. residents, measured after eliminations of intercorporate dividends. <sup>3</sup> Without capital consumption adjustment. Includes depreciation and accidental damages.

## NO. 940. CORPORATE PROFITS BEFORE TAXES: 1960 TO 1980

[In billions of dollars. Profit figures are with inventory valuation adjustment and without capital consumption adjustment]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980
Total .....	49.7	76.0	68.8	94.0	105.6	96.7	120.6	151.6	176.7	199.0	212.7	189.8
Domestic industries .....												
Financial .....	46.7	71.5	62.4	85.3	92.0	80.4	107.6	137.4	161.2	179.3	182.4	168.7
Nonfinancial .....	7.2	7.5	12.1	15.3	15.9	15.0	11.8	23.5	29.3	31.6	30.6	
Manufacturing .....	39.5	64.0	50.2	70.0	76.0	65.4	95.8	120.3	137.7	150.0	150.8	138.1
Wholesale and retail trade .....	23.6	39.3	26.6	40.7	45.5	39.0	52.6	69.2	76.2	85.3	88.9	74.5
Other .....	4.9	8.1	9.5	13.4	13.9	12.5	21.3	22.4	27.0	24.5	28.0	20.9
Rest of the world .....	11.0	18.6	14.1	15.9	16.6	13.9	21.9	28.7	34.5	40.2	38.9	42.7
	3.0	4.5	6.5	8.6	13.7	16.3	13.0	14.3	15.5	19.7	30.3	31.1

Source of tables 939 and 940: U.S. Council of Economic Advisers, *Economic Report of the President*, annual. Data from U.S. Bureau of Economic Analysis.

## NO. 941. CORPORATE PROFITS, BY INDUSTRY: 1960 TO 1980

[In billions of dollars. Profits are without inventory valuation and capital consumption adjustments. Minus sign (-) denotes loss. See headnote, table 939]

YEAR	All industries	Manufacturing	Wholesale, retail trade	Finance, insurance <sup>1</sup>	Communication <sup>2</sup>	Construction <sup>1</sup>	Services	Transportation	Mining	Agriculture <sup>3</sup>	Rest of the world
<b>BEFORE TAXES</b>											
1960 .....	49.8	23.9	4.9	8.3	6.5	.6	.9	.9	.9	.1	3.0
1965 .....	77.2	39.8	8.6	8.9	8.9	1.6	1.6	2.2	.9	.2	4.5
1970 .....	75.4	30.4	11.5	13.3	8.6	2.1	1.8	.2	1.0	.1	6.5
1973 .....	125.6	55.5	21.8	18.8	8.1	2.4	3.5	1.4	1.7	.9	13.7
1974 .....	136.7	59.3	25.6	15.7	7.1	2.5	3.2	2.4	4.2	.4	16.3
1975 .....	132.1	57.8	26.2	12.4	9.3	3.0	4.4	1.2	4.1	.8	13.0
1976 .....	166.3	75.6	27.6	18.9	12.8	3.3	5.7	3.2	4.1	.7	14.3
1977 .....	192.6	83.5	32.3	26.5	15.4	4.6	6.8	3.9	3.4	.6	15.5
1978 .....	223.3	95.5	35.4	33.4	16.8	4.6	8.5	4.9	3.6	.7	19.7
1979 .....	255.4	106.7	39.4	36.2	17.8	4.8	9.6	4.7	4.8	.9	30.3
<b>AFTER TAXES</b>											
1960 .....	27.1	12.5	2.5	4.3	3.2	.3	.4	.3	.7	(2)	3.0
1965 .....	46.3	23.0	5.3	4.5	4.9	1.1	1.0	1.3	.7	.1	4.5
1970 .....	41.3	15.6	6.8	5.4	4.5	1.3	.8	2	.7	-(2)	6.5
1973 .....	76.6	31.4	14.2	6.3	4.9	1.4	2.2	.6	1.3	.6	19.7
1974 .....	85.1	34.1	17.3	5.3	4.1	1.5	2.0	1.4	3.0	.2	16.3
1975 .....	81.5	33.1	17.8	2.2	6.9	1.8	3.0	.3	2.9	.5	13.0
1976 .....	102.5	42.2	18.6	6.4	9.4	2.1	4.0	2.1	3.0	.4	14.3
1977 .....	120.0	46.3	22.0	11.8	11.2	3.2	4.8	2.8	2.2	.3	15.5
1978 .....	140.3	53.6	23.6	15.8	12.0	3.2	6.2	3.5	2.4	.4	19.7
1979 .....	167.8	62.8	26.6	16.4	14.2	3.4	6.9	3.7	2.8	.6	30.3

<sup>2</sup> Less than \$50 million. <sup>3</sup> Includes real estate. Company basis, based on the 1972 Standard Industrial Classification (SIC); see text, p. 376. <sup>4</sup> Includes public utilities. <sup>5</sup> Includes forestry and fisheries.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-76*; and *1976-79*, and *Survey of Current Business*, July 1981.

# Manufacturing Corporations

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## NO. 942. MANUFACTURING CORPORATIONS—SALES, PROFITS, STOCKHOLDERS' EQUITY, AND DEBT: 1960 TO 1980

**In billions of dollars.** Prior to 1970, excludes newspapers. Data are not necessarily comparable from year to year due to changes in accounting procedures, industry classifications, sampling procedures, etc.; for detail, see source. See also *Historical Statistics, Colonial Times to 1970*, series P 93-106.

YEAR	ALL MANUFACTURING CORPS.				DURABLE GOODS INDUSTRIES				NONDURABLE GOODS INDUSTRIES			
	Profits		Stockholders' equity <sup>1</sup>	Debt <sup>1</sup>	Profits		Stockholders' equity <sup>1</sup>	Debt <sup>1</sup>	Profits		Stockholders' equity <sup>1</sup>	Debt <sup>1</sup>
	Sales (net)	Be- fore taxes			Sales (net)	Be- fore taxes			Sales (net)	Be- fore taxes		
1960.....	346	27.5	15.2	165	40.5	174	14.0	7.0	82	20.5	172	13.5
1965.....	492	46.5	27.5	212	57.9	257	26.2	14.5	105	28.4	235	20.3
1970.....	709	48.1	28.6	307	133.9	363	23.0	12.9	155	70.7	346	25.2
1972.....	850	63.2	36.5	343	149.0	436	33.6	18.4	171	77.0	414	29.8
1973.....	1,017	81.4	48.1	374	164.3	527	43.6	24.8	189	86.1	490	37.8
1974.....	1,061	92.1	58.7	395	167.4	529	41.1	24.7	196	87.1	532	34.1
1975.....	1,065	79.9	49.1	423	183.2	521	35.3	21.4	208	94.4	544	44.6
1976.....	1,203	104.9	64.5	463	187.8	590	50.7	30.8	224	91.1	614	54.3
1977.....	1,328	115.1	70.4	497	200.4	657	57.9	34.8	240	94.8	671	57.2
1978.....	1,498	132.5	81.2	541	222.4	761	69.6	41.8	263	105.8	736	63.0
1979.....	1,742	154.2	98.7	600	252.2	866	72.4	45.2	292	122.8	876	81.8
1980.....	1,897	145.4	92.4	665	292.1	883	57.2	35.6	316	142.8	1,014	88.2

<sup>1</sup> Annual data are average equity or debt for the year (using four end-of-quarter figures).

Source: U.S. Federal Trade Commission, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*. In U.S. Council of Economic Advisers, *Economic Report of the President*, annual.

## NO. 943. MANUFACTURING CORPORATIONS—PROFITS, STOCKHOLDERS' EQUITY, SALES, AND DEBT RATIOS: 1970 TO 1980

[Averages of quarterly figures at annual rates. Based on sample; see source for discussion of methodology. Minus (-) sign reflects loss. See headnote, table 942.]

INDUSTRY GROUP	RATIOS OF PROFITS TO STOCKHOLDERS' EQUITY (percent)				PROFITS PER DOLLAR OF SALES (cents)				RATIO OF STOCKHOLDERS' EQUITY TO DEBT			
	1970	1975	1979	1980	1970	1975	1979	1980	1970	1975	1979	1980
	9.3	11.6	16.5	13.9	4.0	4.6	5.7	4.9	2.3	2.3	2.4	2.3
All manufacturing corporations <sup>1</sup> .....	9.3	11.6	16.5	13.9	4.0	4.6	5.7	4.9	2.3	2.3	2.4	2.3
Durable goods industries.....	8.3	10.3	15.5	11.2	3.5	4.1	5.2	4.0	2.2	2.2	2.4	2.2
Stone, clay, and glass products.....	6.9	8.3	15.2	10.8	3.6	3.4	5.6	4.2	2.4	2.1	2.0	1.9
Primary metal industries.....	7.0	8.6	12.2	11.7	4.1	4.4	4.0	4.1	2.0	2.2	1.7	1.7
Iron and steel.....	4.3	10.9	8.8	9.0	2.5	5.0	2.7	2.9	2.2	2.4	1.7	1.7
Nonferrous metals.....	10.6	5.0	17.7	15.6	6.2	3.1	6.5	5.9	1.8	1.8	1.6	1.8
Fabricated metal products.....	8.5	13.2	16.4	13.9	3.0	4.2	4.7	4.2	2.1	2.0	2.2	2.1
Machinery, exc. electrical.....	9.8	13.7	16.9	15.0	4.6	6.4	7.1	6.5	2.2	2.4	2.5	2.2
Electrical and electronic equipment.....	9.1	9.0	17.0	15.1	3.3	3.2	5.6	5.0	1.9	2.2	2.6	2.6
Transportation equipment.....	6.3	7.5	18.1	-6	2.3	2.4	3.8	-3	2.8	2.4	3.5	2.7
Motor vehicles and equipment.....	6.1	6.2	10.9	-9.3	2.6	2.2	3.2	-3.4	4.7	3.6	5.1	3.4
Aircraft, guided missiles and parts.....	6.8	11.0	18.4	16.0	2.0	2.9	5.0	4.3	1.3	1.6	3.0	2.8
Instruments and related products.....	14.3	13.5	16.8	17.5	7.3	7.6	8.7	9.3	3.2	3.3	3.9	4.3
Nondurable goods industries.....	10.3	12.8	17.4	16.4	4.5	5.1	6.1	5.6	2.4	2.4	2.4	2.3
Food and kindred products.....	10.8	14.4	14.7	14.7	2.5	3.2	3.3	3.4	1.9	1.7	1.8	1.9
Tobacco manufactures.....	15.7	15.9	19.2	19.8	5.8	9.2	11.5	11.7	1.4	1.5	1.7	1.8
Textile mill products.....	5.1	4.2	11.9	8.5	1.9	1.2	3.2	2.2	2.1	1.9	2.2	2.0
Paper and allied products.....	7.0	12.6	16.8	12.1	3.4	5.6	6.7	5.1	1.8	1.8	1.9	2.0
Printing and publishing.....	11.2	12.8	18.1	16.4	4.2	4.6	6.1	5.5	2.7	2.4	2.1	2.1
Chemicals and allied products.....	11.4	15.2	16.7	15.4	5.9	7.6	7.5	7.1	2.5	2.3	2.2	2.2
Industrial.....	8.5	13.2	15.2	11.9	5.0	6.9	6.7	5.4	2.1	2.0	1.9	1.9
Drugs.....	17.6	17.8	19.3	19.9	9.4	12.2	12.9	13.2	4.3	3.4	3.1	3.0
Petroleum and coal products.....	11.0	12.5	20.4	20.0	9.3	7.6	9.0	7.7	3.6	4.4	3.7	3.4
Rubber and misc. plastics products.....	7.1	8.0	10.5	6.7	2.7	3.0	3.1	2.0	1.5	1.8	1.7	1.6

<sup>1</sup> Includes other industries not shown separately.

Source: U.S. Federal Trade Commission, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*. In U.S. Council of Economic Advisers, *Economic Report of the President*, annual.

## Business Enterprise

No. 944. CONSUMER COOPERATIVES AND FARMER COOPERATIVES SELLING CONSUMER GOODS, BY  
TYPE OF ASSOCIATION: 1965 TO 1979

(Members in thousands; businesses in millions of dollars. Business refers to loans outstanding)

TYPE OF ASSOCIATION	1965			1970			1979		
	Associations	Members	Business	Associations	Members	Business	Associations	Members	Business
Credit unions <sup>1</sup> .....	22,064	16,755	\$8,098	23,656	22,819	14,106	22,012	43,258	52,224
Electric power cooperatives <sup>2</sup> .....	885	4,964	781	875	5,789	1,195	871	8,435	5,322
Rural telephone cooperatives <sup>3</sup> .....	219	485	48	295	609	86	249	931	289
Independent prepaid and self-insured health plans <sup>4</sup> .....	569	8,694	608	5,482	12,204	1,068	(NA)	28,107	9,353
Community consumer.....	43	3,400	216	40	4,691	445	(NA)	7,982	2,518
Labor and management.....	507	5,068	366	418	5,834	545	(NA)	18,457	5,810
Health professionals (both profit making and non-profit plans).....	19	(NA)	26	24	1,678	78	(NA)	2,688	1,024
Farmer cooperatives selling producer and consumer goods <sup>5</sup> .....	6,763	(NA)	2,910	6,209	(NA)	3,871	5,212	(NA)	13,521
Petroleum products <sup>6</sup> .....	2,773	(NA)	643	2,774	(NA)	862	3,062	(NA)	3,827
Meats and groceries.....	775	(NA)	60	717	(NA)	83	485	(NA)	184
Miscellaneous <sup>8</sup> .....	4,800+	(NA)	356	4,800+	(NA)	527	4,500+	(NA)	1,685

<sup>1</sup> NA Not available. <sup>2</sup> Source: 1965, U.S. Social Security Administration; beginning 1970, National Credit Union Administration, Annual Report of the National Credit Union Administration. See also table 858. <sup>3</sup> Source: U.S. Rural Electrification Administration, Annual Statistical Report—Rural Electric Borrowers. Electric distribution cooperatives currently borrowing from REA, average number of consumers served, and total revenues. <sup>4</sup> Source: U.S. Rural Electrification Administration, Annual Statistical Report—Rural Telephone Borrowers. Cooperatives currently borrowing from REA, number of subscribers at end of year, annual revenues.

<sup>5</sup> Source: U.S. Health Care Financing Administration, Health Care Financing Review, September 1981, and unpublished data. Estimated enrollees and annual subscription income of plans. Enrollment is for most frequent type of benefit (surgical services). 1979, preliminary. <sup>6</sup> 1968 data. <sup>7</sup> Data for fiscal years ending June 30 or earlier in years shown. 1978, calendar year. Since most cooperatives do more than one type of business, totals are less than would be obtained by adding number of cooperatives handling individual items performing individual services. Major products sold are feed, seed, fertilizer, pesticides, and petroleum. See table 1200 for other items sold by farmer cooperatives. <sup>8</sup> Sales include products for farming, for both farm and non-farm home heating, and automobile and truck uses. <sup>9</sup> Includes hardware, building supplies, lawn and garden items, electrical goods, and other supplies used by both farmers and nonfarmers.

Source: Except as noted, U.S. Dept. of Agriculture, Agricultural Cooperative Service, unpublished data.

## No. 945. PATENTS AND TRADEMARKS: 1956 TO 1980

[Covers patents issued to citizens of the United States and residents of foreign countries. For information on copyrights, see table 975. See also Historical Statistics, Colonial Times to 1970, series W 96-108]

Item	1956-1960	1961-1965	1966-1970	1971-1975	1976-1980	1975	1976	1977	1978	1979	1980
<b>Patent applications filed</b> .....	410.4	463.2	504.6	541.4	550.1	108.0	110.0	109.0	109.3	108.9	113.0
Inventions.....	384.8	436.1	476.2	510.4	509.0	101.0	102.3	100.9	100.9	100.5	104.3
Designs.....	23.9	25.3	26.3	28.6	37.2	6.3	7.1	7.3	7.5	7.5	7.8
Botanical plants.....	.6	.6	.6	.7	1.0	.2	.2	.2	.2	.2	.2
Reissues.....	1.2	1.2	1.5	1.7	2.9	.5	.4	.6	.7	.6	.6
<b>Patents issued</b> .....	251.9	275.4	342.9	396.7	334.3	76.8	75.4	69.8	70.5	52.4	66.2
Inventions.....	237.5	260.0	325.1	375.5	312.3	72.0	70.2	65.8	66.1	48.9	61.8
Individuals.....	76.6	69.9	73.4	87.0	65.0	17.2	14.1	14.0	14.3	9.3	13.3
Corporations:											
U.S. ....	133.9	152.8	190.8	192.9	150.4	34.6	34.4	31.5	31.3	23.8	29.4
Foreign <sup>1</sup> .....	21.0	31.0	52.8	66.0	90.4	18.3	19.9	18.2	19.3	14.8	18.2
U.S. Government.....	5.9	6.5	8.4	9.6	6.5	1.9	1.8	1.5	1.2	.9	1.0
Designs.....	13.0	13.9	16.3	18.7	19.4	4.3	4.6	3.9	3.9	3.1	3.9
Botanical plants.....	.6	.6	.4	.8	.8	.2	.2	.2	.2	.1	.1
Reissues.....	.8	1.0	1.1	1.6	1.8	.4	.4	.4	.4	.3	.3
Published applications <sup>2</sup> .....	—	—	.6	.8	.5	.1	.1	.1	.1	.1	(2)
Foreign country residents <sup>3</sup> .....	36.5	48.3	76.0	119.3	118.0	25.4	26.1	23.9	25.1	18.2	24.7
<b>Certificates of trademarks issued</b> .....	108.2	106.6	128.5	158.3	150.7	37.1	33.1	31.9	35.1	25.9	24.7
Trademarks.....	90.7	91.9	104.2	129.4	121.2	30.9	26.3	25.9	29.6	20.5	18.9
Trademark renewals .....	17.5	14.7	24.3	29.9	29.5	6.1	6.8	6.1	5.5	5.4	5.9

<sup>1</sup> Represents zero. <sup>2</sup> Less than 50. <sup>3</sup> Includes patents to foreign governments. <sup>4</sup> Abstracts of technical disclosure of patent published at request of applicant or owner. The current practice, called "Defensive Publications," began in Nov. 1968.

<sup>a</sup> Includes patent inventions and a small number of patents for designs and botanical plants.

Source: U.S. Patent and Trademark Office. Fiscal-year figures are published in the *Commissioner of Patents and Trademarks Annual Report*.



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## Section 19

# Communications

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This section presents statistics on the usage, finances, and operations of the Postal Service and of the various communications media: Telephone, telegraph, radio, television, newspapers and periodicals, and books. Expenditures data for advertising in the media are also included.

**Postal Service.**—The Postal Service provides mail processing and delivery services within the United States. The Postal Reorganization Act of 1970 created the Postal Service, effective July 1971, as an independent establishment of the Federal Executive Branch; it also placed restrictions on the private delivery of mail.

"Revenue and cost analysis" is the term used by the Postal Service to describe its system of attributing revenues and costs to classes of mail and service. This system draws primarily upon probability sampling techniques to develop estimates of revenues, volumes, and weights, as well as costs by classes of mail and special service. The costs attributed to classes of mail and special services are primarily incremental costs which vary in response to changes in volume; they account for roughly 60 percent of the total costs of the Postal Service. The balance represents "institutional costs" which includes funds for research and development, portions of personnel and office supplies, etc. Statistics on revenues, volume of mail, and distribution of expenditures are presented in the Postal Service's annual report *Revenue and Cost Analysis* and its *Annual Report of the Postmaster General*.

**Communication media.**—The Federal Communications Commission (FCC), established in 1934, regulates wire and radio communications and licenses radio and television stations. Only the largest carriers and controlling companies file annual or monthly financial reports. Jurisdiction of the FCC applies to domestic and overseas telegraph carriers and to the Communications Satellite Corporation (Comsat), but not to a large number of telephone carriers which are engaged in intrastate or foreign service. The gross operating revenues of the telephone carriers reporting annually to the FCC, however, are estimated to cover over 90 percent of the revenues of all U.S. telephone companies.

Financial and other reports filed by the broadcasting industry cover substantially all radio and television stations operating in the United States and its outlying areas. Statistics covering the private radio services represent the largest and most diverse group of licensees regulated by the FCC. These services primarily provide two-way radio communication for emergency and business purposes in the aviation, marine, land transportation, and other industries; police, fire, and other public safety programs; and amateur and personal operations. Principal sources of wire, radio, and television data are the FCC's *Annual Report*, its annual *Statistics of Communications Common Carriers*, and its annual releases of financial data reported by radio and television stations and networks.

Statistics on the printed media are available from the U.S. Bureau of the Census, as well as from various private agencies. The censuses of manufactures (conducted by the Census Bureau every five years, for the years ending in "2" and "7") provide statistics on the number and circulation of newspapers and periodicals and on sales of books and pamphlets. *Editor and Publisher Co., Inc.*, New York, presents annual data on the number and circulation of daily and Sunday newspapers in its *International Yearbook*. Monthly data on new books and new editions appear in *Publishers Weekly*, issued by R. R. Bowker Company, New York.

**Advertising.**—The statistics on advertising expenditures are compiled primarily by private organizations. McCann-Erickson, Inc., which compiles certain of the data shown (see tables 981-983), defines national advertising as the advertising done for companies whose products are distributed nationally, and for which national media rates are paid. Local advertising is defined as the advertis-

ing done for companies which market their products locally and which may pay special "local" media rates. Spot advertising is considered time bought by a national advertiser on a selective market basis. Monthly figures for advertising are published periodically by McCann-Erickson in *Advertising Age*.

The Broadcast Advertisers Reports (see tables 984-986) distinguishes between spot and local advertising primarily on the basis of the type of advertiser to whom the time is sold, rather than how and by whom it is sold. In general, time purchased on behalf of retail or service establishments in the market is considered local, even though the establishments may be part of a national or regional chain. That is, spot advertising promotes a product, while local advertising promotes a given establishment. Network advertising, mutually exclusive of spot and local, is broadcast through the network system.

**Statistical reliability.**—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

#### No. 946. U.S. POSTAL SERVICE—SUMMARY: 1900 TO 1980

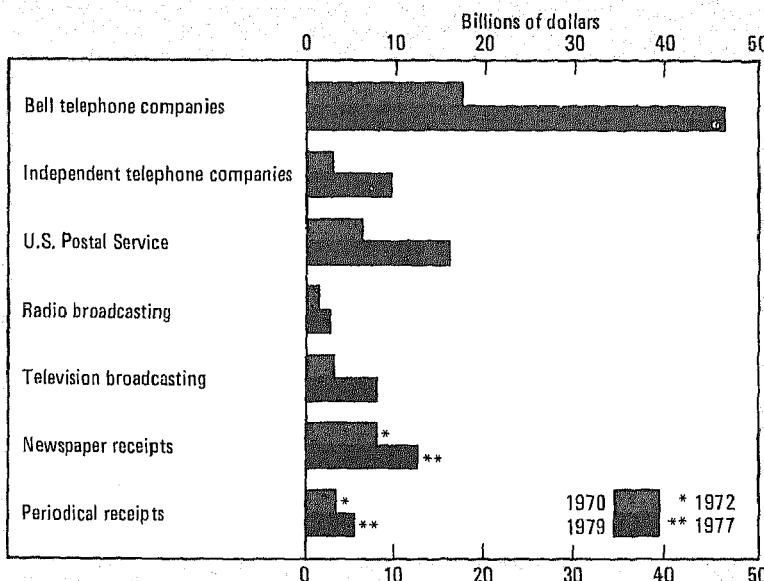
[For years ending June 30 except, beginning 1977, ending Sept. 30. Includes Puerto Rico and all outlying areas except Canal Zone. See text, p. 555. See also *Historical Statistics, Colonial Times to 1970*, series R 163-171]

YEAR	Number of post offices	FINANCES <sup>1</sup>			Revenue per capita <sup>2</sup> (dol.)	Sales of stamps and stamped paper (mil. dol.)	Postage paid under permit and meter (mil. dol.)	Money orders issued, total (mil. dol.)	PIECES OF MAIL HANDLED (est.)		
		Revenues (mil. dol.)	Expenditures <sup>2</sup> (mil. dol.)	Deficit (mil. dol.)					Total <sup>4</sup> (bil.)	First-class <sup>5</sup> (bil.)	Second class <sup>6</sup> (bil.)
1900.....	76,688	102	108	5	1.34	94	(?)	256	7.1	(NA)	(NA)
1910.....	59,580	224	230	6	2.43	202	4	638	14.9	(NA)	(NA)
1920.....	52,641	437	454	17	4.11	380	13	1,356	(NA)	(NA)	(NA)
1930.....	49,063	705	804	98	5.75	575	74	1,767	27.9	16.9	60.6
1940.....	44,024	767	808	41	5.84	522	177	2,108	27.7	15.2	54.9
1950.....	41,484	1,677	2,223	545	11.14	862	678	8,138	45.1	24.5	54.3
1955.....	38,316	2,349	2,712	363	14.33	999	1,136	5,883	55.2	28.7	52.0
1960.....	35,238	3,277	3,874	597	18.27	1,245	1,699	5,058	63.7	33.2	52.1
1965.....	33,624	4,483	5,276	793	23.17	1,528	2,529	4,540	71.9	38.1	53.0
1970.....	32,002	7,702	7,867	165	31.05	1,936	3,883	4,709	84.9	48.6	57.2
1971.....	31,947	8,751	8,855	204	32.24	1,999	4,126	4,728	87.0	50.0	57.5
1972.....	31,686	9,347	9,522	175	37.89	2,371	4,861	4,731	87.2	48.9	56.1
1973.....	31,385	9,913	9,926	13	39.77	2,399	5,141	4,700	89.7	51.0	56.9
1974.....	31,000	10,857	11,295	438	42.85	2,504	5,623	5,194	90.1	51.6	57.3
1975.....	30,754	11,590	12,578	988	47.08	2,819	6,241	5,856	89.3	51.4	57.6
1976.....	30,621	12,747	13,923	1,176	52.21	3,155	6,883	6,243	89.8	52.1	58.0
1976, TQ <sup>9</sup> .....	30,521	3,402	3,387	10 <sup>10</sup> 15	14.11	815	1,895	1,639	21.5	12.5	56.1
1977.....	30,521	14,622	15,310	688	60.18	3,658	7,951	5,636	92.2	53.7	58.2
1978.....	30,518	15,841	16,220	379	64.91	3,943	8,668	5,587	96.9	56.0	57.8
1979.....	30,449	17,999	17,529	10 <sup>10</sup> 470	73.37	4,382	10,062	5,631	99.8	58.0	58.1
1980.....	30,326	19,105	19,412	306	77.32	4,287	10,828	6,112	106.3	60.3	56.7

NA. Not available. <sup>1</sup> After allowance for reimbursements, embossed envelope purchases, indemnity claims, and miscellaneous revenue and expenditure offsets. Through 1950, includes some payments and receipts applicable to services in prior years; beginning 1956, expenditures are shown in year in which obligation was incurred, and revenues in year which gave rise to the earnings, whether collected or accrued. In 1954, the Postal Service began receiving reimbursement for penalty and franked mail, and discontinued payment of subsidies to airlines. Revenues for 1960 include \$37.4 million reimbursement from the Treasury General Fund for statutory public services. These and other changes affect comparability of figures. See also footnote 3, table 947. <sup>2</sup> Includes capital expenditures for plant and equipment and cost of materials and supplies, but no provision for depreciation. Also includes costs of certain services rendered to other agencies without reimbursement but excludes costs of certain services rendered to the Postal Service by other agencies. Beginning 1956, represents obligations incurred; beginning 1965, represents accrued expense, including depreciation on fixed assets, reimbursable work for others, and expenses paid by certain other agencies without reimbursement by the Postal Service. <sup>3</sup> Operating revenue only; based on Bureau of the Census estimated total population as of Jan. 1, including Armed Forces abroad. <sup>4</sup> Includes other classes of mail not shown separately. See table 948. <sup>5</sup> Items mailed at 1st-class rates and weighing 12 ounces or less. Includes items wholly or partially in writing or typewriting, cards or bills and statements of account, items closed against postal inspection, etc. <sup>6</sup> Includes mail paid at other than bulk rates. <sup>7</sup> Service not inaugurated. <sup>8</sup> Includes postal notes issued under act of Congress. <sup>9</sup> Transition quarter, July-Sept. <sup>10</sup> Net income.

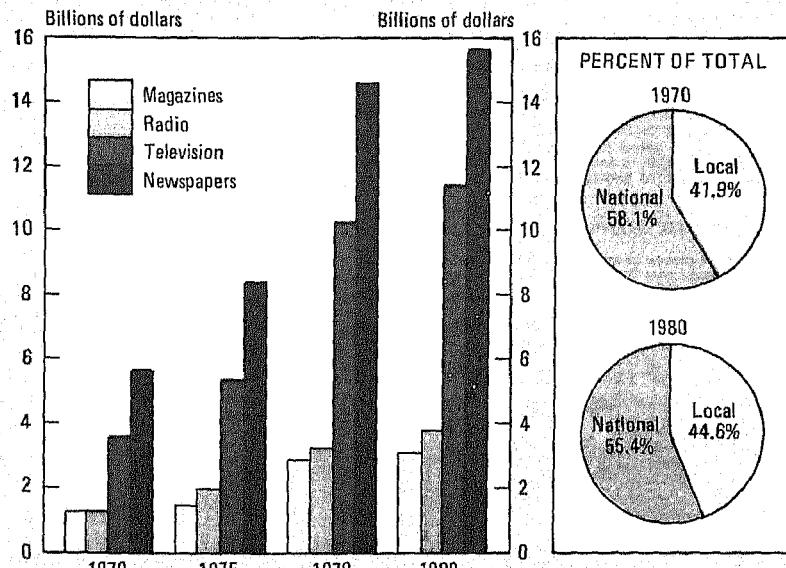
Source: U.S. Postal Service, *Annual Report of the Postmaster General*.

**Figure 19.1**  
**Operating Revenues of Selected Media: 1970 and 1979**



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 947, 952, 954, 959, and 960.

**Figure 19.2**  
**Advertising Expenditures by Selected Media: 1970 to 1980**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 983.

## Communications

## NO. 947. U.S. POSTAL SERVICE REVENUES: 1960 TO 1980

[In millions of dollars, except percent. For years ending June 30 except, beginning 1977, ending Sept. 30. Includes Puerto Rico and all outlying areas except Canal Zone. See text, p. 555]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
Total revenue <sup>1</sup> .....	\$3,277	\$4,483	\$7,702	\$9,913	\$10,857	\$11,590	\$12,747	\$14,622	\$15,841	\$17,999	\$19,106
<b>SOURCE</b>											
Operating postal revenue <sup>2</sup> .....	3,270	4,433	6,347	8,339	9,008	10,015	11,199	12,998	14,133	16,106	17,143
Stamps, postal cards, etc.	1,245	1,528	1,936	2,399	2,504	2,819	3,155	3,658	3,943	4,382	4,287
Second-class postage paid in money (pound rates) <sup>3</sup> .....	86	131	192	224	259	284	319	427	551	755	881
Other postage paid under permit and meter .....	1,699	2,529	3,883	5,141	5,623	6,241	6,883	7,851	8,668	10,062	10,828
Box rents .....	29	34	44	61	63	67	103	109	124	153	160
Miscellaneous.....	5 147	154	236	480	507	556	675	748	758	683	892
Money-order revenues.....	64	57	56	54	52	53	63	105	89	91	85
Government appropriations.....	-	-	1,355	1,486	1,750	1,533	1,645	1,712	1,722	1,720	1,810
Percent of total revenue.....	-	-	17.6	15.0	18.1	13.2	12.9	11.7	10.9	9.8	8.4
Investment income, net.....	-	-	-	89	98	37	89	88	88	173	353
<b>MAIL AND SERVICE</b>											
First-class mail <sup>4</sup> .....	1,510	2,193	3,291	4,578	5,019	5,798	6,734	7,831	8,575	9,733	10,146
Priority mail <sup>5</sup> .....	-	282	352	394	411	411	468	497	561	612	618
Second-class publishers' mail <sup>6</sup> .....	81	119	155	186	213	236	267	363	472	644	618
Controlled circulation publication <sup>10</sup> .....	8	15	35	37	40	41	41	53	67	95	246
Third-class mail <sup>11</sup> .....	441	650	827	1,162	1,214	1,348	1,522	1,748	1,987	2,216	2,412
Bulk rate .....	(NA)	(NA)	(NA)	995	1,046	1,187	1,317	1,508	1,745	1,967	2,168
Single piece rate and fees.....	(NA)	(NA)	(NA)	168	167	181	205	240	242	249	244
Fourth-class mail <sup>12</sup> .....	607	702	778	759	732	718	680	769	673	747	805
Zone rate mail (parcels, catalogs, etc.).....	(NA)	(NA)	(NA)	638	591	577	508	594	480	484	500
Special fourth-class rate.....	(NA)	(NA)	(NA)	111	130	130	160	148	187	237	272
Library rate and fees.....	(NA)	(NA)	(NA)	10	11	11	12	28	27	27	33
Government mail <sup>13</sup> .....	86	124	199	404	471	484	577	611	628	678	745
International mail <sup>14</sup> .....	102	152	270	317	343	390	447	493	499	550	596
Special services.....	184	179	236	245	252	251	257	417	439	506	518
Other <sup>15</sup> .....	259	349	1,629	1,873	2,179	1,913	1,811	1,866	2,005	2,268	2,404

- Represents zero. NA Not available.

<sup>1</sup> Net revenue after refunds of postage. Beginning 1965, includes operating reimbursements. <sup>2</sup> Includes small amounts for Postal Savings System, 1960 and 1965, and reimbursement by U.S. Congress in 1965.

<sup>3</sup> The U.S. Postal Service was established July 1, 1971. Revenues prior to that date are those of the Post Office Department. Revenues for 1970 have been restated to be consistent with subsequent years. See also footnote 1, table 946.

<sup>4</sup> Includes controlled circulation publications. <sup>5</sup> Includes \$37.4 million appropriated to postal revenues for public services as provided by the Postal Policy Act of 1958. <sup>6</sup> Interest expense on loans exceeded interest income received from investments.

<sup>7</sup> See footnote 5, table 946. <sup>8</sup> Items otherwise qualified as 1st-class or airmail that exceed 12 ounces and 8 ounces, respectively. <sup>9</sup> Includes mail paid at other than bulk rates. Publishers' mail includes printed publications periodically issued and mailed at a known post office to paid subscribers. These include regular rate newspapers and magazines, and classroom and nonprofit rate publications. Outside-the-county publications are those mailed to destinations outside the county of publication.

<sup>10</sup> Publications of at least 24 pages and containing at least 25 percent nonadvertising content issued quarterly or more frequently for mainly free distribution. Includes certain trade publications and "shopper" guides. <sup>11</sup> Items less than 16 ounces in weight not mailed at either 1st- or 2d-class rates. <sup>12</sup> Items not mailed at 1st-, 2d-, or 3d-class rates, except government and international mail. May include parcel post, catalogs weighing 16 ounces or more, books, films, and records. <sup>13</sup> Penalty and franked mail. <sup>14</sup> Mail from U.S. to foreign countries paid at international mail rates. <sup>15</sup> Consists of unassignable revenues; includes domestic airmail until 1976, and express mail and mailgrams beginning 1977.

## NO. 948. U.S. POSTAL SERVICE EMPLOYEES, BY TYPE: 1950 TO 1980

[In thousands, except pieces of mail. As of June 30 except, beginning 1977, as of Sept. 30. Includes Puerto Rico, and all outlying areas except Canal Zone. See *Historical Statistics, Colonial Times to 1970*, series R 187, for total employees]

ITEM	1950	1955	1960	1965	1970	1975	1976	1977	1978	1979	1980
Total employees.....	501	512	563	596	741	702	679	655	656	663	667
Regular.....	364	367	409	447	549	559	543	528	526	534	536
Postmasters <sup>1</sup> .....	* 45	142	35	33	30	30	29	29	28	28	29
Office superv. and tech. personnel.....	169	175	27	30	37	37	39	36	37	36	36
Office clerks and mail handlers <sup>2</sup> .....	90	91	110	133	165	167	161	157	156	160	160
City carriers and vehicle drivers.....	36	22	31	31	31	31	31	31	31	32	33
Rural carriers.....	27	26	34	32	42	55	48	47	47	48	49
Other.....	137	145	154	148	193	143	136	127	130	129	130
Pieces of mail per employee, average.....	90	108	113	121	115	127	132	141	148	151	159

<sup>1</sup> Includes assistant postmasters: 3,540 in 1950, and 3,917 in 1955. <sup>2</sup> Includes mobile unit employees.

Source of tables 947 and 948: U.S. Postal Service, *Annual Report of the Postmaster General*.

## No. 949. U.S. POSTAL SERVICE—VOLUME OF MAIL, BY CLASS: 1970 TO 1980

[In millions, except per capita. For years ending June 30 except, beginning 1978, ending Sept. 30. Includes Puerto Rico and all outlying areas except Canal Zone. For definition of classes of mail, see footnotes, table 947. See also *Historical Statistics, Colonial Times to 1970*, series R 172-186.]

CLASS OF MAIL	PIECES OF MAIL					WEIGHT OF MAIL (lb.)					
	1970	1975	1978	1979	1980	1970	1975	1978	1979	1980	
Total.....	84,882	89,266	96,913	99,829	106,311	13,281	12,025	12,013	12,253	12,958	
Domestic.....	83,986	88,334	96,000	98,875	105,348	13,055	11,824	11,804	12,040	12,742	
1st class and airmail <sup>1</sup> .....	50,174	52,482	56,020	57,976	60,832	1,636	1,746	1,962	2,072	2,213	
Priority mail.....	185	207	213	229	248	371	440	510	541	591	
2d class.....	9,852	9,085	8,691	8,400	8,446	3,417	2,792	2,984	2,985	2,550	
3d class.....	19,974	21,887	26,330	27,513	30,381	2,032	2,283	2,725	2,994	3,240	
4th class.....	977	801	691	614	633	4,786	3,754	2,778	2,534	2,661	
Controlled circulation publications.....	562	628	761	846	1,775	224	232	300	358	928	
Penalty.....	2,544	2,828	2,824	2,895	2,992	540	527	498	503	503	
Franked and free for blind.....	218	336	470	402	540	49	50	47	53	56	
International.....	895	932	913	954	963	226	201	209	213	216	
Per capita: <sup>2</sup>											
Total, all domestic mail <sup>3</sup> .....	412	415	441	452	475	64	56	54	55	57	
1st class and airmail.....	246	247	257	264	272	8	8	9	9	10	
2d class.....	46	43	40	38	38	17	13	14	14	12	
3d class.....	98	103	121	125	137	10	11	13	14	15	
4th class.....	5	4	3	3	3	23	18	13	12	12	

<sup>1</sup> Beginning 1978, includes express mail established as a class of mail on October 9, 1977, and mailgrams. <sup>2</sup> Based on estimated total population as of Jan. 1, including Armed Forces abroad. <sup>3</sup> Includes types of mail not shown separately.

Source: U.S. Postal Service, *Annual Report of the Postmaster General*.

## No. 950. U.S. POSTAL SERVICE RATES FOR LETTERS AND POST CARDS: 1958 TO 1981

[See also *Historical Statistics, Colonial Times to 1970*, series R 188-191]

DATE OF RATE CHANGE	SURFACE MAIL			Domestic airmail letters <sup>1</sup>	DATE OF RATE CHANGE	SURFACE MAIL			Domestic airmail letters <sup>1</sup>			
	Letters		Post-al and post cards			Letters		Post-al and post cards				
	Each ounce	First ounce				Each ounce	First ounce					
1958 (Aug. 1).....	4¢	(X)	(X)	3¢	7¢	1975 (Sept. 14).....	(X)	10¢	9¢	7¢	(X)	
1963 (Jan. 7).....	5¢	(X)	(X)	4¢	8¢	1975 (Dec. 31).....	(X)	12¢	11¢	9¢	(X)	
1968 (Jan. 7).....	6¢	(X)	(X)	5¢	10¢	1978 (May 29).....	(X)	15¢	13¢	10¢	(X)	
1971 (May 16).....	8¢	(X)	(X)	6¢	11¢	1981 (Mar. 22).....	(X)	18¢	17¢	12¢	(X)	
1974 (Mar. 2).....	10¢	(X)	(X)	8¢	13¢	1981 (Nov. 1).....	(X)	20¢	17¢	13¢	(X)	

X Not applicable. <sup>1</sup> Each ounce, except as noted.

<sup>2</sup> As of October 11, 1975, surface mail service upgraded to level of airmail.

<sup>3</sup> 17¢ for first ounce; 15¢ for each added ounce.

<sup>4</sup> As of May 1, 1977, domestic airmail service, as a separate class of mail, was discontinued.

Source: U.S. Postal Service, "United States Domestic Postage Rates: Recent History," and unpublished data.

## No. 951. UTILIZATION OF SELECTED MEDIA: 1950 TO 1981

ITEM	Unit	1950	1955	1960	1965	1970	1975	1978	1979	1980	1981
Households with —											
Telephone service <sup>1</sup> .....	Percent.....	62	72	79	85	91	93	96	96	96	(NA)
Radio sets <sup>2</sup> .....	Percent.....	92.6	96.4	96.3	98.6	98.6	98.6	99.9	99.9	99.0	99.0
Average number of sets	Number.....	2.1	2.4	3.7	4.1	5.1	5.6	5.7	5.7	5.5	(NA)
Television sets <sup>3</sup> .....	Percent.....	9	65	87	93	95	97	98	98	98	98
Average number of sets	Number.....	1.01	1.03	1.13	1.22	1.39	1.54	1.63	1.67	(NA)	(NA)
Color set households.....	Millions.....	—	(Z)	3	2.8	20.9	46.9	56.9	60.3	63.4	66.3
Average viewing per day <sup>4</sup> .....	Hours.....	4.8	4.9	5.1	5.5	5.9	6.1	6.3	6.3	6.3	6.5
Cable television: <sup>5</sup>											
Systems.....	Number.....	70	400	640	1,325	2,490	3,506	3,875	4,150	4,225	(NA)
Subscribers served.....	Millions.....	.01	.15	.65	1.3	4.5	9.8	13.0	14.1	15.5	(NA)
Daily newspaper circulation: <sup>6</sup>											
Number.....	Millions.....	53.8	56.1	58.9	60.4	62.1	60.7	62.0	62.2	62.2	(NA)
Per capita <sup>8</sup> .....	Number.....	.354	.340	.327	.312	.305	.282	.279	.277	.275	(NA)

<sup>1</sup> Represents zero. <sup>2</sup> NA Not available. <sup>3</sup> Z Less than 50,000. <sup>4</sup> As of Dec. 31. Source: American Telephone and Telegraph Company, New York, N.Y., unpublished data. <sup>5</sup> As of Dec. 31. Source: Radio Advertising Bureau, New York, N.Y., *Radio Facts*, annual (copyright). <sup>6</sup> 1970-1978, as of Sept. of prior year; all other years as of Jan. of year shown. Source: Except as noted, 1950-1965, National Broadcasting Company, New York, N.Y.; thereafter, A.C. Nielsen Company, Northbrook, Ill. (copyright). In Television Bureau of Advertising, Inc., New York, "Trends in Television, 1950 to Date," April 1, 1981. <sup>7</sup> Source: A.C. Nielsen Company, Northbrook, Ill. (copyright). <sup>8</sup> As of Jan. 1. Source: Television Digest, Inc., Washington, D.C. *Television Factbook*, annual (copyright). <sup>9</sup> Data for 1952. <sup>10</sup> As of Sept. 30, 1970, except 1950-1965, as of Oct. 1. Source: Editor and Publisher, Inc., New York, N.Y., *Editor and Publisher International Year Book*, annual (copyright). <sup>11</sup> Per capita based on total resident population enumerated as of April 1, 1970 and 1980, and estimated as of July 1 for other years.

Source: Compiled from sources listed in footnotes.

## NO. 952. BELL TELEPHONE COMPANIES—SUMMARY: 1960 TO 1980

[As of Dec. 31 or for calendar year, as applicable. Comprises American Telephone and Telegraph Company and its principal telephone subsidiaries, plus Southern New England and Cincinnati Bell Telephone Companies. See also *Historical Statistics, Colonial Times to 1970*, series R 17-30]

ITEM	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980
Central offices <sup>1</sup> .....	1,000	11.2	13.4	15.1	16.9	17.2	17.5	17.8	18.1	18.7	19.2
Miles of—Wire .....	Million	308	423	602	800	832	871	910	982	1,018	1,068
Coaxial tube .....	1,000	97	169	287	331	333	398	387	331	332	334
Telephone-grade carrier channel <sup>2</sup> .....	Million	76	167	414	608	645	672	715	758	854	979
Microwave radio relay <sup>3</sup> .....	1,000	298	728	1,181	1,356	1,369	1,370	1,407	1,402	1,402	1,470
Book value of plant (cost) .....	Bil. dol.	24.7	36.2	56.2	82.7	89.2	95.8	103.6	113.0	123.9	135.5
Depreciation reserves <sup>4</sup> .....	Bil. dol.	5.4	7.8	12.6	16.6	17.6	18.7	19.9	21.2	22.6	24.0
Operating revenues <sup>5</sup> .....	Bil. dol.	8.1	11.3	17.4	26.8	29.6	33.5	37.3	42.0	46.4	51.9
Local exchange .....	Bil. dol.	4.7	6.1	8.7	13.1	14.4	18.0	17.5	19.2	20.8	23.0
Toll .....	Bil. dol.	3.1	4.7	8.0	12.7	14.2	16.4	18.5	21.2	23.8	28.7
Operating expenses <sup>6</sup> .....	Bil. dol.	5.6	7.9	12.9	19.8	22.2	24.8	27.7	31.0	34.9	39.3
Net income .....	Bil. dol.	1.3	1.9	2.3	3.3	3.3	4.0	4.7	5.6	5.6	6.1
Dividends declared <sup>7</sup> .....	Bil. dol.	.8	1.1	1.5	2.1	2.2	2.6	2.9	3.3	3.8	4.0
Net income <sup>8</sup> .....	Bil. dol.	1.2	1.8	2.2	2.9	2.9	3.6	4.3	5.1	5.5	5.9
Average common equity .....	Bil. dol.	12.1	18.9	23.9	26.8	28.6	32.1	35.3	39.0	42.6	46.7
Return to average common equity .....	Ratio	10.0	9.5	9.2	10.4	9.7	11.1	12.2	13.1	12.9	12.7
Employees, number .....	1,000	595	627	793	812	789	778	785	823	855	868
Wages and salaries .....	Bil. dol.	3.3	4.2	6.6	10.2	11.1	12.2	13.4	15.1	17.3	19.3

<sup>1</sup> 1960 not fully comparable with later years. <sup>2</sup> Message circuits added to existing wire mileage, but not requiring additional wire. Also includes microwave radio. <sup>3</sup> Broadband, 1-way channel. <sup>4</sup> Includes amortization reserves. <sup>5</sup> Includes miscellaneous and uncollectible, not shown separately. <sup>6</sup> Includes operating taxes other than Federal income tax. <sup>7</sup> Excludes intercompany dividends. <sup>8</sup> Beginning 1973, applicable to ATT common (excludes preferred dividend requirement).

Source: American Telephone and Telegraph Company, New York, N.Y., unpublished data compiled from reports of Bell System and Southern New England and Cincinnati Bell Companies.

## NO. 953. TELEPHONE AND TELEGRAPH SYSTEMS: 1950 TO 1979

[Covers principal carriers filing annual reports with Federal Communications Commission. See *Historical Statistics, Colonial Times to 1970*, series R 46-70 and R 75-88, for data on telegraph systems]

ITEM	Unit	1950	1955	1960	1965	1970	1975	1976	1977	1978	1979
<b>Domestic telephone:</b>											
Carriers .....	Number	71	53	52	54	56	62	62	63	63	61
Telephones <sup>2</sup> .....	Million	39	50	66	82	105	130	135	143	149	153
Miles of wire .....	Million	147	205	316	436	628	872	913	986	1,022	1,081
Gross book cost of plant .....	Bil. dol.	10.7	16.2	25.7	38.0	58.9	95.5	103.1	113.1	123.6	134.9
Depreciation reserves <sup>3</sup> .....	Bil. dol.	3.0	4.1	5.6	8.1	13.2	18.8	20.2	21.9	23.5	24.9
Ratio to book cost .....	Percent	27.8	25.3	21.7	21.4	22.1	19.7	19.8	19.4	19.0	18.5
Capital stock .....	Bil. dol.	3.2	6.0	8.4	10.0	10.8	12.4	12.7	14.2	14.8	16.5
Operating revenues .....	Bil. dol.	3.4	5.5	8.4	11.8	18.2	31.3	35.6	40.1	45.2	49.8
Operating expenses <sup>4</sup> .....	Bil. dol.	2.5	3.7	5.0	7.1	11.7	20.2	22.7	25.7	29.1	33.0
Net operating income <sup>5</sup> .....	Bil. dol.	.5	.8	1.4	2.1	3.1	5.6	6.5	7.2	8.1	8.9
Employees .....	1,000	4	7	1.3	1.9	2.3	3.6	4.3	5.1	5.9	6.0
Compensation of employees .....	Bil. dol.	565	649	627	655	839	840	832	851	894	928
Overseas telephone:											
Number of overseas calls .....	Million	.7	1.2	3.3	7.5	23.4	62.2	75.8	96.3	133.9	168.3
Revenue from overseas calls .....	Mil. dol.	9	16	42	101	252	562	664	795	963	1,106
Ocean cable systems .....	Number	1	1	5	11	13	14	15	15	15	15
Communications satellites .....	Number	—	—	—	1	4	5	5	5	5	5
<b>Domestic telegraph:</b>											
Carriers .....	Number	1	1	1	1	1	1	1	1	1	1
Revenue messages transmitted .....	Million	178	154	124	94	70	42	43	45	50	55
Message revenues <sup>6</sup> .....	Mil. dol.	152	189	190	192	234	197	202	214	238	271
Total operating revenues .....	Mil. dol.	178	229	262	306	402	505	528	555	576	636
Operating revenue deductions .....	Mil. dol.	167	206	247	282	368	435	453	470	492	561
Operating income <sup>7</sup> .....	Mil. dol.	9	13	11	24	34	70	74	85	84	75
Teletypewriter messages .....	Million	15	23	33	47	46	54	53	53	56	59
Overseas telegraph: <sup>8</sup>											
Carriers .....	Number	11	10	9	6	6	6	6	6	6	7
Revenue messages transmitted .....	Million	23	26	28	29	32	26	24	23	22	21
Message revenues <sup>6</sup> .....	Mil. dol.	42	50	71	78	124	217	238	276	320	356
Total operating revenues .....	Mil. dol.	50	68	87	107	194	316	344	397	455	497
Operating revenue deductions .....	Mil. dol.	45	58	77	87	156	245	265	294	336	362
Operating income <sup>7</sup> .....	Mil. dol.	4	3	6	14	26	48	55	69	63	65
<b>Return on investment:</b>											
Telephone .....	Percent	6.1	6.6	7.3	7.3	7.1	7.6	8.1	8.3	8.5	8.5
Domestic telegraph .....	Percent	5.1	7.6	5.0	5.6	5.0	6.1	6.3	7.0	6.6	5.5
Overseas telegraph .....	Percent	7.3	5.8	7.2	11.0	10.6	12.0	13.1	15.8	18.2	17.9

<sup>—</sup> Represents zero. <sup>1</sup> Includes Puerto Rico and, beginning 1965, Virgin Islands. Excludes intercompany duplications. Gross operating revenues of carriers reporting since 1970 estimated at 90 percent of all carriers. <sup>2</sup> Includes company, service, and private. <sup>3</sup> Includes amortization reserves. <sup>4</sup> Excludes taxes. <sup>5</sup> After tax deductions. <sup>6</sup> Includes telex service; for domestic operations of All America Cables and Radio, Inc. <sup>7</sup> Ratio of net operating income (after taxes) to average net book cost of communications plant.

Source: U.S. Federal Communications Commission, *Statistics of Communications Common Carriers*, annual, and unpublished data.

## NO. 954. INDEPENDENT TELEPHONE COMPANIES—SUMMARY: 1951 TO 1980

[As of Dec. 31 or calendar year, as applicable. See also *Historical Statistics, Colonial Times to 1970*, series R 31-45]

ITEM	Unit	1951	1955	1960	1965	1970	1975	1977	1978	1979	1980
All companies <sup>1</sup>	Number	5,541	4,713	3,299	2,421	1,841	1,618	1,556	1,527	1,488	1,483
Telephones 1,000	Mil. dol.	6,338	8,461	11,428	15,027	20,312	26,823	29,675	31,549	33,226	34,665
Total telephone plant	Mil. dol.	1,096	2,043	4,019	8,826	12,390	21,200	25,130	27,788	31,644	35,900
Operating revenues	Mil. dol.	317	590	1,020	1,670	2,953	5,500	7,115	8,085	9,240	10,475
Reporting companies <sup>2</sup>	Number	379	406	550	669	684	731	757	761	755	765
Telephones 1,000	Mil. dol.	4,922	6,750	9,718	13,648	19,182	25,548	28,495	30,323	32,511	33,748
Telephone plant in service	Mil. dol.	878	1,656	3,396	6,056	11,175	19,520	23,243	25,640	29,379	32,491
Depreciation reserves	Mil. dol.	203	326	600	1,168	2,203	4,120	5,393	6,063	6,880	7,620
Operating revenues	Mil. dol.	270	503	1,040	1,530	2,791	5,294	6,864	7,807	9,073	10,177
Operating expenses <sup>3</sup>	Mil. dol.	211	354	630	1,040	1,953	3,639	4,722	5,405	6,415	7,279
Net income	Mil. dol.	29	67	117	225	356	711	980	1,073	1,210	1,288
Common stock and surplus	Mil. dol.	(NA)	555	1,111	1,894	3,733	6,181	7,137	7,751	8,719	9,673
Net income to common stock and surplus	Percent	(NA)	12.0	10.5	11.9	9.5	11.5	13.5	13.8	13.9	13.2
Employees	1,000	63	72	85	101	142	152	160	172	187	189
Wages and salaries	Mil. dol.	147	224	359	537	1,001	1,737	2,218	2,579	3,015	3,373

NA. Not available. <sup>1</sup> All telephone companies independent of Bell System. <sup>2</sup> Comprises only companies submitting operating information to source cited below. <sup>3</sup> Excludes Federal income tax.

Source: United States Independent Telephone Association, Washington, D.C., *Statistics of the Independent Telephone Industry*, annual. (Copyright.)

## NO. 955. REA AND RURAL TELEPHONE BANK PROGRAM—SUMMARY: 1960 TO 1980

ITEM	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980
Loans and guarantees approved, Dec. 31: <sup>1</sup>										
Borrowers	Number	727	845	862	921	939	950	966	981	990
REA amount	Mil. dol.	737	1,200	1,816	2,576	2,851	3,043	3,351	3,606	3,845
Guaranteed amount	Mil. dol.	-	-	-	237	394	394	392	392	418
Rural Telephone Bank amount	Mil. dol.	-	-	-	618	768	979	1,121	1,262	1,388
Route miles of line <sup>2</sup> Dec. 31	1,000	287	460	547	653	681	728	748	772	798
Subscribers, Dec. 31	1,000	1,142	1,726	2,335	3,045	3,283	3,599	3,877	4,073	4,262
Telephones in service	1,000	1,280	2,046	2,988	4,355	4,796	5,388	5,925	6,395	6,770
Total operating revenues	Mil. dol.	94	187	363	753	899	1,087	1,305	1,540	1,758
Total telephone plant	Mil. dol.	635	918	2,085	3,850	4,374	5,074	5,770	6,558	7,388
Employees	1,000	9.7	11.6	15.4	20.0	21.2	23.5	25.3	27.9	29.4

- Represents zero. <sup>1</sup> Cumulative net loans (cancellations deducted). <sup>2</sup> Line in service.

Source: U.S. Rural Electrification Administration, *Annual Statistical Report—Rural Telephone Borrowers*.

## NO. 956. TELEPHONES, CALLS, AND RATES: 1960 TO 1980

[See also *Historical Statistics, Colonial Times to 1970*, series R 1-16]

ITEM	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980
Telephones, Dec. 31	Million	74	94	120	144	149	155	162	189	176	180
Total per 1,000 population	Number	408	478	582	670	686	708	732	755	755	789
Bell companies <sup>1</sup>	Million	63	79	100	118	122	127	132	137	143	142
Independent companies	Million	11	15	20	26	27	28	30	31	32	35
Business	Million	21	26	33	39	39	41	42	44	46	48
Residence	Million	54	68	87	105	110	114	120	125	130	133
Households with service <sup>2</sup>	Percent	79	85	91	93	93	94	95	96	96	96
Average daily conversations:											
Bell companies <sup>1, 3</sup>	Million	225	287	379	470	481	498	519	561	576	595
Local	Million	215	273	356	438	448	462	479	515	526	541
Long distance	Million	10	14	23	32	33	36	40	45	50	54
Independent companies <sup>3</sup>	Million	60	80	107	143	146	146	160	176	180	192
Local	Million	58	77	103	136	137	137	150	165	166	176
Long distance	Million	2	3	4	7	9	9	10	11	14	16
Toll rates in effect, Dec. 31, from New York City to— <sup>4</sup>	Dollar	.50	.50	.50	.60	.90	.99	1.01	1.01	1.01	1.05
Philadelphia	Dollar	1.45	1.40	1.05	1.15	1.20	1.18	1.18	1.18	1.18	1.25
Chicago	Dollar	1.80	1.70	1.25	1.35	1.30	1.24	1.24	1.24	1.24	1.31
Denver	Dollar	2.25	2.00	1.35	1.45	1.36	1.30	1.30	1.30	1.30	1.37
San Francisco	Dollar	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
London	Dollar	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Cairo	Dollar	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Tokyo	Dollar	(NA)	9.00	8.00	9.00	9.00	9.00	9.00	7.80	7.35	7.80
Buenos Aires	Dollar	(NA)	(NA)	8.00	8.00	8.00	8.00	8.00	8.00	6.75	7.05

NA. Not available. <sup>1</sup> See headnote, table 952. <sup>2</sup> See footnote 3, table 957 for definition. Based on revised household counts. <sup>3</sup> Includes messages originating in independent company areas routed in part over Bell facilities. <sup>4</sup> Source: Federal Communications Commission, tariff releases. Rates for dialing station-to-station, daytime, 3-minute calls.

Source: Except as noted, American Telephone and Telegraph Company, New York, N.Y., unpublished data.

## Communications

## NO. 957. TELEPHONES IN USE, BY STATES: 1970 AND 1979

[As of Dec. 31]

STATE	TELEPHONES						STATE	TELEPHONES						PERCENT HOUSEHOLDS WITH SERVICE <sup>a</sup>		
	Number (1,000)		Percent owned by Bell <sup>b</sup>		Per 100 population, <sup>c</sup> 1979			Number (1,000)		Percent owned by Bell <sup>b</sup>		Per 100 population, <sup>c</sup> 1979		1970	1979	
	1970	1979	1970	1979	1970	1979		1970	1979	1970	1979	1970	1979	1970	1979	
U.S.	120,155	176,535	83	81	57	92	98	Mo.	2,753	3,798	83	80	58	91	97	
Ala.	1,563	2,528	84	83	50	80	91	Mont.	357	604	84	82	56	89	95	
Alaska.	85	260	-	-	36	(NA)	89	Nebr.	884	1,287	58	58	61	96	101	
Ariz.	956	1,970	97	96	53	82	101	Nev.	333	745	35	32	63	84	100	
Ark.	859	1,497	73	71	47	77	90	N.H.	425	701	95	95	58	99	103	
Calif.	13,306	20,164	79	78	61	94	99	N.J.	4,786	6,523	98	98	66	99	106	
Colo.	1,374	2,318	98	98	57	93	98	N. Mex.	494	861	87	86	46	80	91	
Conn.	2,051	2,652	99	99	64	100	103	N.Y.	12,416	12,991	92	91	54	97	98	
Del.	380	520	100	100	64	97	103	N.C.	2,385	4,110	52	53	53	82	95	
D.C.	878	1,091	100	100	81	100	103	N. Dak.	321	564	70	74	63	84	100	
Fla.	4,142	7,751	68	64	59	88	102	Ohio	6,201	8,012	77	75	56	94	97	
Ga.	2,413	4,089	88	86	55	83	95	Oklahoma	1,469	2,331	88	86	57	88	97	
Hawaii.	424	691	-	-	47	(NA)	107	Oreg.	1,190	1,995	78	72	55	89	95	
Idaho.	358	691	80	79	54	87	98	Pa.	7,476	9,741	83	81	62	95	100	
Ill.	7,110	10,097	83	83	66	94	100	R.I.	531	712	100	100	57	96	100	
Ind.	2,905	4,135	66	64	57	90	95	S.C.	1,168	2,076	74	72	50	80	93	
Iowa.	1,625	2,278	70	68	59	95	88	S. Dak.	335	517	81	79	56	91	97	
Kans.	1,301	1,924	83	84	61	93	95	Tenn.	1,947	3,191	84	83	53	84	95	
Ky.	1,435	2,307	73	71	48	80	90	Texas	6,329	10,803	84	81	55	86	97	
La.	1,781	2,878	95	94	52	87	97	Utah	596	1,042	96	96	53	93	99	
Maine.	490	783	90	88	54	93	102	Vt.	235	364	87	86	52	97	108	
Md.	2,482	3,515	100	100	62	93	102	Va.	2,476	3,824	80	79	53	86	96	
Mass.	3,623	4,551	100	100	58	98	100	W. Va.	763	1,118	87	86	44	82	90	
Mich.	5,135	7,245	89	87	80	95	101	Wis.	2,370	3,490	72	69	55	95	100	
Minn.	2,248	3,130	82	78	57	97	100	Wyo.	196	375	94	94	56	89	93	
Miss.	881	1,536	95	95	47	71	66									

<sup>a</sup> Represents zero. <sup>b</sup> NA Not available. <sup>c</sup> Includes 463,200 service telephones (noncompany telephones for which switching service is provided) in 1970, and 373,261 in 1979. <sup>d</sup> Residential telephones per 100 population. Based on Bureau of the Census enumerated resident population as of April 1, 1980. <sup>e</sup> Households with service are sum of residence main, apartment house private branch exchange and residence service main telephones, and other residence private branch exchange systems. There tends to be a slight overstatement of the proportion of households with telephone service.

Source: U.S. Federal Communications Commission, *Statistics of Communications Common Carriers*, annual.

## NO. 958. COMMERCIAL BROADCAST STATIONS, NUMBER AND REVENUES: 1950 TO 1979

(Revenues in millions of dollars. Covers reporting stations. As of Dec. 31. Includes Puerto Rico and Virgin Islands. Revenues are total time sales of all networks and stations, less commissions to agencies plus incidental revenues (e.g., sale of talent and program material). See also *Historical Statistics, Colonial Times to 1970*, series R 111-112 and R 128-129.)

STATION	1950	1955	1960	1965	1970	1974	1975	1976	1977	1978	1979
Stations	2,336	3,179	4,218	4,867	5,584	6,136	6,228	6,339	6,316	6,462	6,492
Net broadcast revenues	550	1,198	1,866	2,757	3,845	5,384	5,819	7,218	8,163	9,585	10,750
AM and AM-FM stations	2,143	2,704	3,470	3,941	4,209	4,367	4,355	4,363	4,292	4,316	4,253
Net broadcast revenues <sup>1</sup>	443	452	592	777	1,077	1,410	1,480	1,687	1,846	2,065	2,177
FM affiliates of AM stations	(NA)	(NA)	(NA)	(NA)	225	397	477	562	586	655	661
Net broadcast revenues	(NA)	(NA)	(NA)	(NA)	19	65	102	152	203	285	336
FM independent stations	86	38	218	338	464	678	703	713	741	777	835
Net broadcast revenues	1	1	6	16	41	128	143	180	225	285	362
TV stations	107	437	590	588	686	694	693	701	697	714	723
Net broadcast revenues <sup>2</sup>	106	745	1,269	1,965	2,808	3,781	4,094	5,199	5,889	6,950	7,875

NA Not available. <sup>1</sup> Prior to 1960, includes 4 national networks and 3 regional networks; 1960-1965, includes 4 national networks; 1970-1977, includes 7 national networks (CBS, MBS, NBC, and ABC's 3 AM and 1 FM) thereafter includes 8 national networks (seven previously stated plus Sheridan Broadcasting Network). <sup>2</sup> Includes 4 networks through Sept. 15, 1955; 3 thereafter.

Source: U.S. Federal Communications Commission, *AM-FM Broadcast Financial Data*, annual; *TV Broadcast Financial Data*, annual; and unpublished data.

## No. 959. TELEVISION BROADCAST INDUSTRY FINANCES: 1960 TO 1980

[For commercial stations only. Includes Puerto Rico and Virgin Islands. See also headnote, table 958, and *Historical Statistics, Colonial Times to 1970*, series R 123-139]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980
Number of networks, Dec. 31.....	3	3	3	3	3	3	3	3	3	3
Number of stations reporting, Dec. 31.....	530	588	686	694	693	701	697	714	723	725
VHF.....	454	488	506	514	513	511	512	513	512	507
UHF.....	76	100	180	180	180	190	185	201	211	218
FINANCES (mil. dol.)										
Broadcast revenues, gross.....	1,504	2,328	3,337	4,479	4,860	6,191	7,000	8,286	9,365	10,477
Sales to advertisers.....	1,456	2,266	3,243	4,354	4,722	6,030	6,840	8,102	9,183	10,279
Network sales.....	747	1,142	1,551	2,005	2,157	2,675	3,242	3,726	4,317	4,808
National non-network sales.....	469	796	1,103	1,336	1,449	1,923	1,968	2,336	2,574	2,929
Local sales.....	240	328	589	1,012	1,116	1,432	1,631	2,040	2,298	2,542
Nonadvertising revenues.....	48	62	94	125	138	161	159	184	182	198
Broadcast revenues, net.....	1,269	1,965	2,808	3,781	4,094	5,198	5,889	6,950	7,875	8,808
3 networks <sup>1</sup> .....	641	1,024	1,457	1,921	2,068	2,604	3,085	3,549	4,093	4,566
Other stations.....	628	941	1,351	1,860	2,025	2,594	2,804	3,400	3,782	4,242
Broadcast expenses of networks and stations.....	1,025	1,517	2,354	3,043	3,314	3,948	4,488	5,297	6,185	7,154
3 networks <sup>1</sup> .....	546	862	1,290	1,590	1,755	2,150	2,530	2,989	3,517	4,031
Other stations.....	479	655	1,065	1,453	1,559	1,798	1,958	2,307	2,668	3,123
Broadcast Income <sup>2</sup> .....	244	448	454	738	780	1,250	1,401	1,653	1,890	1,654
3 networks <sup>1</sup> .....	95	162	167	331	314	455	555	580	575	534
Other stations.....	149	286	286	406	466	798	846	1,094	1,115	1,119

<sup>1</sup> Includes owned and operated stations. <sup>2</sup> Before Federal income tax.

Source: U.S. Federal Communications Commission, *TV Broadcast Financial Data*, annual.

## No. 960. RADIO BROADCAST INDUSTRY FINANCES: 1960 TO 1979

[For commercial stations only. Includes Puerto Rico and Virgin Islands. Minus sign (–) denotes loss. See also headnote, table 958, and *Historical Statistics, Colonial Times to 1970*, series R 106-122]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979
Number of networks, Dec. 31.....	4	4	7	7	7	7	7	7	8	8
Number of stations reporting, Dec. 31.....	3,688	4,279	4,898	5,244	5,436	5,535	5,638	5,619	5,748	5,769
AM and AM-FM.....	3,470	3,941	4,209	4,267	4,361	4,355	4,363	4,292	4,316	4,253
FM Independents.....	218	338	464	616	678	703	713	741	777	835
FM affiliates of AM stations <sup>1</sup> .....	(NA)	(NA)	225	361	397	477	562	586	655	681
FINANCES (mil. dol.)										
Broadcast revenues, gross.....	665	880	1,272	1,664	1,774	1,911	2,247	2,655	2,935	3,198
Revenues from sales to advertisers.....	654	868	1,257	1,647	1,756	1,890	2,226	2,513	2,911	3,172
Network sales.....	45	54	49	59	60	73	92	118	126	138
National non-network sales.....	208	261	355	382	387	416	495	521	592	637
Local sales.....	401	553	853	1,205	1,309	1,401	1,639	1,873	2,192	2,397
Nonadvertising revenues.....	11	12	15	17	18	21	21	22	24	26
Broadcast revenues, net.....	598	783	1,137	1,502	1,603	1,725	2,019	2,275	2,635	2,874
AM and AM-FM <sup>2</sup> .....	592	777	1,077	1,348	1,410	1,480	1,687	1,846	2,065	2,177
FM Independents.....	8	16	41	96	128	143	180	225	285	362
FM affiliates of AM stations.....	(NA)	(NA)	19	58	65	102	152	203	285	336
Networks <sup>3</sup> .....	63	74	88	112	116	134	166	213	236	253
Other stations.....	535	719	1,049	1,388	1,487	1,591	1,853	2,062	2,399	2,621
Broadcast expenses of networks and stations.....	552	712	1,044	1,392	1,518	1,638	1,841	2,028	2,324	2,643
AM and AM-FM <sup>2</sup> .....	544	698	973	1,227	1,315	1,384	1,529	1,642	1,827	2,004
FM Independents.....	8	19	47	106	141	152	176	216	262	348
FM affiliates of AM stations.....	(NA)	(NA)	24	58	63	98	136	171	235	291
Networks <sup>3</sup> .....	66	71	90	109	116	128	157	166	193	215
Other stations.....	486	644	955	1,283	1,403	1,510	1,684	1,882	2,131	2,427
Broadcast Income <sup>4</sup> .....	46	78	93	110	84	91	179	246	311	231
AM and AM-FM <sup>2</sup> .....	48	81	104	121	95	95	158	204	237	178
FM Independents.....	-2	-3	-6	-11	-13	-9	4	9	24	14
FM affiliates of AM stations.....	(NA)	(NA)	-5	-1	2	5	17	32	50	45
Networks <sup>3</sup> .....	-3	3	-1	3	-	6	9	47	44	37
Other stations.....	49	75	94	107	84	85	170	200	267	194

<sup>1</sup> Represents zero. <sup>2</sup> NA Not available. <sup>3</sup> For 1960 and 1965, reports combined with AM stations. <sup>4</sup> Includes national networks. <sup>5</sup> Includes owned and operated stations.

<sup>1</sup> For 1960 and 1965, reports combined with AM stations. <sup>2</sup> Includes national networks. <sup>3</sup> Includes owned and operated stations. <sup>4</sup> Unrevised data; will not add to total. <sup>5</sup> Before Federal income tax.

Source: U.S. Federal Communications Commission, *AM-FM Broadcast Financial Data*, annual.

## NO. 961. BROADCAST AND NONBROADCAST STATIONS AUTHORIZED AND OPERATORS LICENSED, BY

CLASS: 1975 TO 1980

[1975 as of June 30; thereafter, as of Sept. 30. Includes Puerto Rico and Virgin Islands. See also *Historical Statistics, Colonial Times to 1970*, series R 140-148]

CLASS	1975	1979	1980	CLASS	1975	1979	1980
				STATIONS AUTHORIZED (1,000)			
Private radio services <sup>1</sup> ...	2,802.4	16,807.3 <sup>2</sup>	16,357.3	Operational fixed services <sup>3</sup> .....	(NA)	16.0	18.0
Amateur and disaster	276.8	375.5	389.9	Broadcast services <sup>4</sup> .....	32,172	35,973	37,172
Personal	1,530.8	15,000.3	14,560.2	Commercial AM	4,488	4,634	4,889
Aviation	184.4	226.9	231.6	Commercial TV	759	807	844
Aircraft	154.7	193.2	186.8	Educational TV	256	276	288
Aeronautical and fixed	7.4	9.1	9.5	TV translator	3,389	4,238	4,638
Civil air patrol	19.6	21.3	21.6	Auxiliary TV	3,032	5,099	5,844
Other	2.7	3.4	3.7	Experimental TV	3	2	5
Industrial	244.6	462.0	504.9	UHF signal booster	9	9	6
Power	17.5	22.0	23.1	Aural, studio-transmitter-link,			
Business	155.2	337.2	370.4	Intercity relay	1,008	1,836	2,144
Petroleum	11.8	16.9	17.9	Commercial FM	2,847	3,900	3,990
Forest products	4.3	6.0	6.4	Educational FM	850	1,112	1,156
Special industrial	40.7	66.8	72.1	International	4	4	4
Other	15.1	12.7	14.7	Remote pickup	14,959	13,522	12,796
Land transportation	22.6	26.2	28.0	Instructional TV, fixed	187	198	223
Railroad	8.9	9.7	10.0	Other	381	936	1,145
Taxicab	3.7	4.5	4.8	Common carrier serv-			
Interurban property	2.2	2.8	3.1	ices	27,357	58,988	65,255
Other	7.8	9.0	9.9	Point-to-point microwave	8,133	8,917	9,164
Marine	250.7	371.2	398.3	Multipoint distribution serv	69	144	215
Ship	243.6	360.3	386.6	Local TV transmission	64	65	66
Alaskan	2.1	2.4	2.6	Rural radio	1,218	1,716	1,692
Coastal and other	5.0	8.5	9.1	Developmental	(NA)	33	93
Public safety	92.6	128.9	137.1	Public land mobile <sup>1</sup>	17,783	45,415	50,312
Police	28.8	40.5	42.3	International control, fixed	25	5	7
Fire	14.0	19.3	20.6	Satellite earth stations <sup>5</sup>	48	2,603	3,619
Forestry conservation	6.2	7.3	7.6	Satellites in orbit <sup>6</sup>	17	32	32
Highway maintenance	7.7	9.5	9.7	Other	(NA)	55	55
Special emergency	12.4	20.4	22.4	Experimental services	1,349	1,302	1,552
Other	23.5	31.7	34.2	Cable TV relay service <sup>4</sup>	877	1,490	1,880
Total				RADIO OPERATORS (1,000)			
Commercial				Total	4,222	4,968	5,154
Amateur				Commercial	3,965	4,589	4,784
				Amateur	257	376	390

NA. Not available. <sup>1</sup> Each license, construction permit, or combination construction permit and license is counted as one station; therefore, a station might include a transmitter and many mobile units. <sup>2</sup> Includes 89,096 stations for which a breakdown by class is not available. <sup>3</sup> Includes microwave operations. Prior to 1977, data not separable from other class categories. <sup>4</sup> Stations licensed or holding construction permits. <sup>5</sup> Includes domestic satellite systems.

Source: U.S. Federal Communications Commission, *Annual Report*.

## NO. 962. COMMERCIAL BROADCAST STATIONS—STATES AND OTHER AREAS: 1980

[Represents stations in operation as of Jan. 1]

STATE	AM	FM	TV	STATE	AM	FM	TV	STATE	AM	FM	TV
Total	4,561	3,098	762	Ky.	123	88	11	Oklahoma	67	53	14
U.S.	4,498	3,057	751	La.	95	65	16	Oreg.	80	37	12
Ala.	143	77	17	Maine	38	33	7	Pa.	179	125	28
Alaska	22	12	7	Md.	50	38	6	R.I.	15	7	2
Ariz.	62	32	13	Mass.	67	39	12	S.C.	108	56	12
Ark.	93	54	9	Mich.	131	122	24	S. Dak.	33	19	11
Calif.	235	208	55	Minn.	94	73	12	Tenn.	164	81	19
Colo.	72	53	12	Miss.	107	75	11	Tex.	290	199	59
Conn.	39	25	5	Mo.	112	80	24	Utah	35	22	4
Del.	10	7	-	Mont.	46	25	12	Vt.	19	12	2
D.C.	8	9	5	Nebr.	48	37	14	Va.	188	74	16
Fla.	200	118	32	Nev.	22	13	8	Wash.	96	49	15
Ga.	187	93	19	N.H.	28	15	2	W. Va.	63	34	9
Hawaii	28	8	10	N.J.	39	36	5	Wis.	102	94	20
Idaho	44	23	8	N. Mex.	57	29	9	Wyo.	31	10	6
Ill.	128	132	24	N.C.	215	89	21	Other areas	63	41	11
Ind.	86	95	20	N. Dak.	28	10	13	P. Rico	55	36	8
Iowa	77	75	13	Ohio	124	130	25	Guam, V. Is., Am. Samoa	8	5	3
Kansas	60	47	12								

- Represents zero. <sup>1</sup> AM-FM stations which filed combined reports with the FCC are counted both as AM and as FM stations. There were 1,512 in 1978 (no count available for 1980).

Source: U.S. Federal Communications Commission, unpublished data.

# Radio and TV Stations—Cable TV

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## NO. 963. RADIO AND TELEVISION STATIONS OWNED BY NEWSPAPERS AND/OR MAGAZINES: 1961 TO 1980

DATE	AM radio	FM radio	TV	DATE	AM radio	FM radio	TV	DATE	AM radio	FM radio	TV
1961, Sept. 1.....	412	147	161	1971, Dec. 1.....	818	209	176	1976, Dec. 1.....	322	238	209
1965, Oct. 31.....	391	170	174	1972, Dec. 1.....	325	171	178	1977, Dec. 1.....	314	238	211
1968, Dec. 4.....	381	191	183	1973, Dec. 1.....	304	211	179	1978, Dec. 1.....	319	252	221
1969, Dec. 1.....	394	245	189	1974, Dec. 1.....	321	236	193	1979, Dec. 1.....	318	257	226
1971, Feb. 1.....	402	248	191	1975, Dec. 1.....	320	238	197	1980, Dec. 1.....	315	264	230

Source: Broadcasting Publications Inc., Washington, D.C., *Broadcasting Yearbook*. (Copyright.)

## NO. 964. CABLE TELEVISION—SYSTEMS AND SUBSCRIBERS: 1952 TO 1980

YEAR (As of Jan. 1)	Systems	Subscribers (1,000)	YEAR (As of Jan. 1)	Systems	Subscribers (1,000)	SUBSCRIBER SIZE-GROUP <sup>1</sup>	Systems, 1979 <sup>2</sup>
1952.....	70	14	1972.....	2,841	6,000	50,000 and over....	14
1955.....	400	150	1973.....	2,991	7,300	20,000-49,999....	108
1960.....	640	650	1974.....	3,158	8,700	10,000-19,999....	244
1965.....	1,325	1,275	1975.....	3,506	9,800	5,000-9,999....	391
1967.....	1,770	2,100	1976.....	3,681	10,800	3,500-4,999....	289
1968.....	2,000	2,800	1977.....	3,832	11,900	1,000-3,499....	1,258
1969.....	2,260	3,600	1978.....	3,875	13,000	500-999....	730
1970.....	2,490	4,500	1979.....	4,150	14,100	250-499....	571
1971.....	2,639	5,300	1980.....	4,225	15,500	Less than 250....	500

<sup>1</sup> Excludes 74 systems not available by subscriber size-group. <sup>2</sup> As of Oct. 15.

Source: Television Digest, Inc., Washington, D.C., *Television Factbook*, annual. (Copyright.)

## NO. 965. CABLE TELEVISION—SELECTED CHARACTERISTICS: 1976 TO 1979

[For fiscal year ending in December of year shown. Figures estimated based on financial entities reporting to the FCC. A financial entity is defined as one or more cable television community systems which report to the FCC as one business entity. Data adjusted for nonresponse.]

ITEM	Unit	1976	1977	1978	1979	ITEM	Unit	1976	1977	1978	1979
Communities.....	Number.....	7,198	8,369	8,200	8,599	Total assets.....	Mil. dol.....	2,516	2,450	2,871	3,212
Financial entities.....	Number.....	2,349	2,577	2,865	2,992	Operating revenues.....	Mil. dol.....	1,000	1,206	1,511	1,817
Percent reporting.....	Percent.....	84	90	90	94	Operating expenses.....	Mil. dol.....	616	717	918	1,127
Subscribers.....	1,000.....	12,636	12,832	14,114	15,760	Operating income.....	Mil. dol.....	384	489	593	690
Avg. subscriber rate per month.....	Dollars.....	6.49	6.85	7.03	7.37	Net income <sup>1</sup> .....	Mil. dol.....	58	134	187	189
						Pay cable revenue.....	Mil. dol.....	41	86	182	355

<sup>1</sup> Before tax.

Source: U.S. Federal Communications Commission, *Cable Television Revenues*, annual.

## NO. 966. PUBLIC TELEVISION STATIONS: 1961 TO 1980

[Based on a "typical" broadcast week through 1972; calendar year data for 1974 and 1976; fiscal year data thereafter. General programming is directed at the general community. Instructional programming is directed at students in the classroom or otherwise in the general context of formal education. 1980 preliminary]

ITEM	1961	1966	1968	1970	1972	1974	1976	1978	1980
Stations.....	56	115	1153	1190	220	238	253	272	281
Total weekly broadcast hours.....	2,186	5,688	8,534	12,217	15,587	18,321	22,096	26,064	28,036
General programs.....	1,431	3,248	4,671	7,697	7,904	10,868	14,329	17,929	19,508
Percent of total hours.....	65.5	57.5	54.7	63.0	50.7	59.3	64.6	68.8	69.6
Instructional programs.....	755	2,440	3,863	4,520	7,683	7,453	7,766	8,195	8,528
Average weekly broadcast hours per station.....	39.0	49.5	56.1	65.3	70.9	80.7	90.9	95.8	99.8
General programming.....	25.6	28.2	30.7	41.1	36.0	47.9	59.0	65.9	69.4
Instructional programming.....	13.8	21.2	25.4	24.2	34.9	43.2	43.9	28.9	30.4

<sup>1</sup> 152 stations reported in 1968 and 187 in 1970; details include data for reporting stations only. <sup>2</sup> Includes data for 227 stations only, representing 147 primary broadcasters; does not include secondary broadcasters. <sup>3</sup> Includes data for 243 stations only, representing 151 primary broadcasters. <sup>4</sup> Includes all material from Children's Television Workshops.

Source: Through 1970, National Instructional Television Center, Bloomington, Ind., *One Week of Educational Television*, 1970 (copyright); 1972, Corporation for Public Broadcasting, *One Week of Public TV*, April 1972, and unpublished data; 1974-1980, Corporation for Public Broadcasting, *PTV Programming Content by Category Report Series*, and unpublished data.

## NO. 967. PUBLIC BROADCASTING SYSTEMS—INCOME BY SOURCE: 1972 TO 1980

(In millions of dollars, except as indicated. Fiscal year data. Beginning 1976 includes nonbroadcast income)

INCOME SOURCE	1972	1974	1975	1976	1977	1978	1979	1980 <sup>1</sup>	PERCENT DISTRIBUTION		
									1972	1975	1980
Number of CPB-qualified public radio stations.....	132	159	169	176	182	199	210	217	(X)	(X)	(X)
Number of public TV stations.....	226	247	260	266	274	280	281	290	(X)	(X)	(X)
<b>Total income.....</b>	<b>234.3</b>	<b>298.0</b>	<b>369.8</b>	<b>415.8</b>	<b>482.1</b>	<b>552.3</b>	<b>598.8</b>	<b>696.6</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Federal government.....	59.8	67.0	92.3	112.6	135.3	160.8	163.1	192.3	25.5	25.0	27.6
State and local government.....	107.7	146.8	182.4	175.9	191.3	218.2	241.0	265.8	46.0	43.9	38.2
Subscribers and auction/marathon.....	17.6	31.5	42.3	55.4	63.7	75.2	86.1	101.8	7.5	11.4	14.6
Business and industry.....	(*)	18.3	25.1	29.4	40.0	49.0	57.9	71.9	(*)	6.8	10.3
Foundation.....	25.1	17.9	28.7	28.0	22.8	17.2	20.4	23.4	10.7	7.8	3.4
Other.....	24.1	16.3	19.0	19.5	29.3	32.0	30.2	41.6	2	10.3	5.1

<sup>X</sup> Not applicable. <sup>1</sup> Preliminary. <sup>2</sup> Business and industry included in other.Source: Corporation for Public Broadcasting, Washington, D.C., *Status Report of Public Broadcasting, 1980*, and unpublished data.

## NO. 968. RADIOS AND TELEVISION SETS—PRODUCTION AND IMPORTS, BY TYPE: 1960 TO 1980

(In thousands, except percent)

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
<b>RADIOS<sup>1</sup></b>											
<b>Total.....</b>	<b>24,483</b>	<b>41,726</b>	<b>44,427</b>	<b>50,198</b>	<b>43,992</b>	<b>34,515</b>	<b>44,101</b>	<b>52,926</b>	<b>48,035</b>	<b>40,029</b>	<b>37,726</b>
Percent FM/AM-FM.....	(NA)	15.2	48.0	47.9	59.4	65.0	59.6	65.9	66.7	68.6	76.8
Table model.....	4,511	4,370	5,714	3,023	2,764	2,263	2,876	1,990	1,805	1,250	938
Percent FM/AM-FM.....	16.8	32.0	72.8	83.6	81.7	80.6	66.4	54.5	61.3	72.5	59.3
Clock model.....	3,780	5,448	4,874	10,425	9,174	6,641	7,353	11,447	11,488	9,354	9,445
Percent FM/AM-FM.....	4.1	16.0	53.8	72.7	79.1	89.1	85.8	89.4	92.3	93.4	97.6
Portable model.....	9,740	21,871	23,461	24,204	21,292	16,382	21,427	26,599	22,074	17,044	17,721
Percent FM/AM-FM.....	1.4	15.7	55.9	42.9	61.9	68.4	55.4	61.4	59.0	63.7	68.6
Auto model.....	6,432	10,037	10,378	12,546	10,762	9,239	12,445	12,990	12,668	12,301	9,622
Percent FM/AM-FM.....	(NA)	6.9	13.8	28.3	31.8	37.7	49.7	56.0	57.7	56.1	73.2
<b>TELEVISION SETS<sup>2</sup></b>											
<b>Total.....</b>	<b>5,708</b>	<b>11,028</b>	<b>9,483</b>	<b>17,367</b>	<b>15,279</b>	<b>10,637</b>	<b>14,131</b>	<b>15,431</b>	<b>17,407</b>	<b>16,619</b>	<b>17,508</b>
Monochrome sets.....	5,708	3,382	4,852	7,296	6,888	4,418	5,937	6,090	6,733	6,576	6,729
Table and portable.....	3,274	6,956	4,463	7,049	6,732	4,354	5,863	6,033	6,706	6,559	6,714
Console.....	2,211	1,318	389	247	136	64	74	57	27	17	15
Color sets <sup>3</sup> .....	(NA)	2,646	4,631	10,071	8,411	6,219	8,194	8,341	10,674	10,043	11,803
Table and portable.....	(NA)	(NA)	2,495	6,700	5,698	4,186	5,785	6,722	7,813	7,727	9,373
Console.....	(NA)	(NA)	2,018	3,313	2,874	2,008	2,377	2,591	2,739	2,295	2,419

NA. Not available. <sup>1</sup> Products of U.S. manufacturers and imports by distributors or dealers for resale. Beginning 1973, also includes products purchased by U.S. manufacturers. <sup>2</sup> Products produced or purchased by U.S. manufacturers for sale with their brand name. Beginning 1973, also includes products imported directly by distributors or dealers for resale. <sup>3</sup> Includes combinations, not shown separately.

Source: Electronic Industries Association, Washington, D.C., *Electronic Market Data Book*, annual. (Copyright.)

## NO. 969. PUBLISHING INDUSTRY—SUMMARY: 1967 TO 1977

(In millions of dollars, except as noted. Based on the censuses of manufactures; for details, see Appendix III)

ITEM	NEWSPAPERS			PERIODICALS			BOOKS		
	1967	1972	1977	1967	1972	1977	1967	1972	1977
Establishments, number.....	8,094	8,116	8,867	2,510	2,535	2,994	1,022	1,205	1,745
With 20 or more employees.....	2,029	2,120	2,147	454	483	525	287	307	346
Employees <sup>1</sup> (1,000).....	336	349	349	79	67	70	52	57	60
Payroll.....	2,224	3,168	4,306	634	709	1,020	390	558	830
Value of receipts.....	5,757	8,263	13,056	3,096	3,511	6,057	2,135	2,857	4,794
Cost of materials.....	1,574	2,044	3,539	1,234	1,404	2,289	763	960	1,544
Value added by manufacture <sup>2</sup> .....	4,185	6,220	9,519	1,859	2,110	3,763	1,457	1,836	3,262
New capital expenditures.....	247	360	554	58	57	86	55	48	78
Fixed assets, gross value.....	2,627	3,639	5,026	607	588	725	338	512	680
Inventories, yearend.....	163	153	382	165	198	350	573	629	992

<sup>1</sup> Represents the average number of production workers plus the number of other employees in mid-March. <sup>2</sup> Derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments. This result is then adjusted by the addition of value added by merchandising operations, plus the net change in finished goods and work-in-process inventories between the beginning and the end of the year.

Source: U.S. Bureau of the Census, *Census of Manufactures*, 1977, Industry Reports, series MC 77-I-27A.

# Newspapers and Periodicals

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## NO. 970. NEWSPAPERS, PERIODICALS, BOOK PUBLISHING AND PRINTING—NUMBER OF COMPANIES, AND SHARE OF TOTAL SHIPMENTS BY LARGEST FIRMS: 1967 TO 1977

[Largest companies are ranked by value added by manufacture]

ITEM	NEWSPAPERS			PERIODICALS			BOOK PUBLISHING			BOOK PRINTING		
	1967	1972	1977	1967	1972	1977	1967	1972	1977	1967	1972	1977
Number of companies (1,000) .....	7.6	7.5	7.8	2.4	2.5	2.9	1.0	1.1	1.7	.7	.7	.9
Value of shipments (bill. dol.) .....	5.8	8.3	13.1	3.1	3.5	6.1	2.1	2.9	4.8	.8	.9	1.7
Percent accounted for by:												
4 largest companies .....	16	17	19	24	26	22	20	19	17	21	24	25
8 largest companies .....	25	28	31	37	38	35	32	31	30	30	36	35
20 largest companies .....	40	43	45	56	54	52	57	56	57	48	53	49
50 largest companies .....	56	60	62	72	69	67	77	77	74	64	68	64

Source: U.S. Bureau of the Census, *Census of Manufactures, 1977, Concentration Ratios in Manufacturing*, MC 77 (SR)-9.

## NO. 971. NEWSPAPERS AND PERIODICALS: 1950 TO 1981

[Prior to 1960, excludes Alaska and Hawaii. Data refer to year of compilation of the Directory cited as the source, i.e., generally to year preceding year shown. See also *Historical Statistics, Colonial Times to 1970*, series R 232-243.]

ITEM	1950	1955	1960	1965	1970	1975	1977	1978	1979	1980	1981
<b>Newspapers.....</b>	<b>12,115</b>	<b>11,415</b>	<b>11,315</b>	<b>11,383</b>	<b>11,383</b>	<b>11,400</b>	<b>11,089</b>	<b>10,538</b>	<b>9,827</b>	<b>9,620</b>	<b>9,676</b>
Semiweekly.....	337	324	324	357	423	508	550	569	543	537	508
Weekly .....	9,794	9,126	8,979	8,989	8,903	8,824	8,506	7,980	7,357	7,159	7,238
Daily.....	1,894	1,860	1,854	1,843	1,838	1,819	1,811	1,783	1,744	1,744	1,747
Other .....	90	105	158	194	219	251	226	206	183	180	183
<b>Periodicals.....</b>	<b>6,960</b>	<b>7,648</b>	<b>8,422</b>	<b>8,890</b>	<b>9,573</b>	<b>9,657</b>	<b>9,732</b>	<b>9,582</b>	<b>9,719</b>	<b>10,236</b>	<b>10,873</b>
Weekly .....	1,443	1,602	1,580	1,716	1,856	1,918	1,892	1,827	1,764	1,716	1,921
Semimonthly <sup>1</sup> .....	416	503	527	550	569	537	548	541	594	645	667
Monthly .....	3,694	3,782	4,113	4,195	4,314	4,087	4,019	3,846	3,850	3,985	4,199
Bimonthly .....	438	608	743	876	957	1,009	1,045	1,031	1,043	1,114	1,193
Quarterly .....	604	674	895	1,030	1,108	1,093	1,149	1,172	1,261	1,444	1,484
Other .....	367	479	564	623	749	1,013	1,089	1,165	1,207	1,332	1,409

<sup>1</sup> Due to processing errors, detail will not add to total. <sup>2</sup> Includes fortnightly (every two weeks).

Source: Ayer Press, Bala Cynwyd, Pa., *Ayer Directory Publications*, annual. (Copyright.)

## NO. 972. DAILY AND SUNDAY NEWSPAPERS—NUMBER AND CIRCULATION, 1950 TO 1980, AND BY CIRCULATION SIZE-GROUP: 1980

[Prior to 1960, excludes Alaska and Hawaii. Number of newspapers as of the following dates: 1950-1960, Oct. 1; 1965, Jan. 1; 1970-1980, Feb. 1 of the following year. Circulation figures as of Sept. 30, except 1950-1965 as of Oct. 1. For English language newspapers only]

CIRCULATION SIZE-GROUP	NUMBER OF NEWSPAPERS			CIRCULATION (mil.) <sup>2</sup>			PERCENT OF ALL NEWSPAPERS			
	Daily		Sun-day	Daily		Sun-day	Number		Circulation <sup>2</sup>	
	Total <sup>1</sup>	Morn-ing		Total <sup>1</sup>	Morn-ing		Total daily	Sun-day	Total daily	Sun-day
1950.....	1,772	322	1,450	549	53.8	21.3	32.6	46.6	(x)	(x)
1955.....	1,760	316	1,454	541	56.1	22.2	34.0	45.4	(x)	(x)
1960.....	1,763	312	1,459	563	58.9	24.0	34.9	47.7	(x)	(x)
1965.....	1,751	320	1,444	562	60.4	24.1	36.3	48.6	(x)	(x)
1970.....	1,748	334	1,429	566	62.1	25.9	35.2	49.2	(x)	(x)
1975.....	1,756	339	1,436	639	60.7	25.5	35.2	51.1	(x)	(x)
1978.....	1,756	355	1,419	696	62.0	27.7	34.3	54.0	(x)	(x)
1979.....	1,763	382	1,405	720	62.2	28.8	33.6	54.4	(x)	(x)
1980, total .....	1,745	367	1,388	736	62.2	29.4	32.6	54.7	100.0	100.0
500,001 and over.....	12	11	4	18	10.1	8.5	1.6	15.1	.7	2.4
250,001-500,000.....	23	13	13	33	7.5	3.9	3.6	11.1	1.3	4.5
100,001-250,000.....	86	49	43	77	13.2	7.5	5.7	12.1	4.9	10.5
50,001-100,000.....	145	74	77	94	9.5	4.8	4.8	6.5	8.3	12.8
25,001-50,000.....	272	87	194	151	9.6	3.0	6.5	5.6	15.6	20.5
10,001-25,000.....	522	78	447	202	8.2	1.3	6.9	3.3	29.9	27.4
10,000 or less.....	685	75	610	161	4.1	.4	3.7	1.0	39.3	21.9

X Not applicable. <sup>1</sup> Beginning 1955, all-day newspapers are counted in both morning and evening columns but only once in total. Circulation is divided equally between morning and evening. <sup>2</sup> Percents calculated on gross totals.

Source: Editor & Publisher Co., Inc., New York, N.Y., *Editor & Publisher International Year Book*, annual. (Copyright.)

## Communications

## No. 973. DAILY AND SUNDAY NEWSPAPERS—NUMBER AND CIRCULATION, 1970 TO 1980, AND BY STATES, 1980

[Number of newspapers as of Feb. 1 of the following year, except 1977, as of Mar. 30 of the following year. Circulation figures as of Sept. 30. For English language newspapers only. See also *Historical Statistics, Colonial Times to 1970*, series R 224-231.]

YEAR AND STATE	DAILY		SUNDAY		YEAR AND STATE	DAILY		SUNDAY			
	Num- ber	Circulation		Num- ber	Net paid circula- tion (1,000)	Num- ber	Circulation		Num- ber	Net paid circula- tion (1,000)	
		Net paid (1,000)	Per capita <sup>1</sup>				Net paid (1,000)	Per capita <sup>1</sup>			
1970.....	1,748	62,108	.305	586	49,217	Mass.....	48	2,024	.353	9	1,483
1972.....	1,761	62,510	.299	603	49,089	Mich.....	52	2,448	.264	15	2,381
1973.....	1,774	63,147	.299	634	51,717	Minn.....	30	1,019	.250	11	1,017
1974.....	1,768	61,877	.290	641	51,679	Miss.....	25	398	.158	13	320
1975.....	1,756	60,655	.282	639	51,096	Mo.....	53	1,548	.315	18	1,149
1976.....	1,762	60,977	.280	650	51,565	Mont.....	11	197	.250	8	198
1977.....	1,753	61,495	.280	668	52,429	Nebr.....	19	487	.310	6	411
1978.....	1,756	61,990	.279	696	53,980	Nev.....	9	222	.278	5	221
1979.....	1,763	62,223	.277	720	54,380	N.H.....	9	186	.213	2	78
1980.....	1,745	62,202	.275	736	54,676	N.J.....	27	1,693	.230	16	1,592
Ala.....	28	745	.192	21	685	N. Mex.....	20	273	.210	14	251
Alaska.....	8	107	.266	1	59	N.Y.....	79	7,885	.449	33	5,895
Ariz.....	19	621	.228	8	578	N.C.....	55	1,378	.235	24	1,131
Ark.....	33	480	.210	17	482	N. Dak.....	10	196	.300	3	107
Calif.....	122	6,014	.254	50	5,569	Ohio.....	95	3,280	.305	28	2,532
Colo.....	27	902	.312	10	927	Oklahoma.....	54	838	.277	44	862
Conn.....	25	907	.292	7	677	Oreg.....	21	702	.267	6	618
Del.....	3	156	.262	2	139	Pa.....	101	3,857	.325	19	3,088
D.C.....	2	914	1,433	2	1,125	R.I.....	7	316	.334	2	239
Fla.....	52	2,633	.270	33	2,717	S.C.....	20	603	.193	8	497
Ga.....	36	1,037	.190	15	1,012	S. Dak.....	12	174	.252	4	126
Hawaii.....	5	238	.247	2	220	Tenn.....	31	1,081	.235	16	1,004
Idaho.....	14	209	.221	7	190	Tex.....	118	3,439	.242	97	3,935
Ill.....	77	2,839	.249	24	2,795	Utah.....	6	278	.190	5	274
Ind.....	78	1,631	.287	18	1,190	Vt.....	8	118	.231	3	76
Iowa.....	41	684	.303	9	743	Va.....	35	1,091	.204	15	854
Kans.....	48	597	.253	18	487	Wash.....	26	1,187	.287	16	1,103
Ky.....	27	757	.207	11	602	W. Va.....	25	471	.242	9	392
La.....	25	812	.193	14	806	Wis.....	36	1,222	.260	10	826
Maine.....	9	290	.258	1	118	Wyo.....	10	97	.206	3	64
Md.....	14	703	.167	4	649						

<sup>1</sup> Per capita based on total resident population enumerated as of April 1, 1970 and 1980, and estimated as of July 1 for other years.

Source: Editor & Publisher Co., Inc., New York, N.Y., *Editor & Publisher International Year Book*, annual. (Copyright.)

## No. 974. NEWSPRINT CONSUMPTION AND NEWSPAPER PAGES: 1960 TO 1980

[Consumption data based on a 30-lb. weight. In 1974, a number of newsprint producers reduced the basic weight of newsprint from 32 pounds, for 500 sheets measuring 24" by 36", to 30 pounds. Data prior to 1975 have been adjusted for comparability. See table 1273 for additional newsprint data. See also *Historical Statistics, Colonial Times to 1970*, series R 218-223.]

ITEM	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980
Newsprint consumption, total <sup>1</sup> .....	Mil. sh. ton.	7.0	8.0	9.7	9.3	9.8	10.2	10.9	11.2	11.1
Per capita <sup>2</sup> .....	Pound.....	77.4	82.8	95.2	88.9	89.5	94.5	99.6	102.2	100.0
By newspapers <sup>3</sup> .....	Mil. sh. ton.	6.5	7.4	8.5	8.6	8.9	9.5	10.2	10.4	10.8
Advertising content <sup>4</sup> .....	Percent.....	59.4	60.5	61.5	63.7	63.5	63.1	63.4	63.7	(NA)
Other content <sup>4</sup> .....	Percent.....	40.6	39.5	38.5	36.3	36.5	38.9	36.6	36.3	(NA)
Price per ton <sup>5</sup> .....	Dollar.....	135	135	152	260	285	305	320	375	399
Newspaper pages per issue: <sup>6</sup>										
Daily.....	Number.....	43	50	47	57	55	54	460	64	66
Sunday.....	Number.....	142	167	145	180	177	177	196	207	208

NA. Not available. <sup>1</sup> Estimated. <sup>2</sup> Based on U.S. Bureau of the Census estimated resident population as of July 1. <sup>3</sup> Estimated. 1980 preliminary. Source: Bureau of Industrial Economics, unpublished data. <sup>4</sup> Based on data from Media Records, Inc. <sup>5</sup> Source: Editor & Publisher Co., Inc., New York, N.Y., *Editor & Publisher*, weekly (copyright). <sup>6</sup> Prices in the eastern U.S.

Source: Except as noted, American Newspaper Publishers Association, Reston, Va., *Newsprint Statistics*, annual.

# Copyright Registrations—Books Sold

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## No. 975. COPYRIGHT REGISTRATION, BY SUBJECT MATTER: 1960 TO 1980

[In thousands. For years ending June 30 except beginning 1978, ending Sept. 30. Comprises claims to copyright registered for both U.S. and foreign works. See also *Historical Statistics, Colonial Times to 1970*, series W 82-95]

SUBJECT MATTER OF COPYRIGHT	1960	1970	1975	SUBJECT MATTER OF COPYRIGHT	1978 <sup>2</sup>	1979	1980
Total.....	243.9	316.5	401.3	Total <sup>3</sup> .....	415.7	429.0	464.7
Books.....	60.0	88.4	111.9	Monographs.....	112.9	122.8	119.2
Periodicals (issues).....	64.2	83.9	95.1	Serials.....	110.9	109.6	117.9
Contributions to newspapers, periodicals.....	3.3	1.9	2.6	Musical works.....	114.8	108.3	120.2
Lectures, sermons, addresses.....	.8	1.7	1.9	Dramatic works, including any accompanying music.....	6.1	7.1	8.0
Dramatic or dramatico-musical compositions.....	2.4	3.4	4.9	Choreography and pantomimes.....	(z)	(z)	(z)
Musical compositions.....	65.6	88.9	114.8	Motion pictures and filmstrips.....	8.5	5.7	8.5
Maps.....	1.8	1.8	1.8	Two dimensional works of fine and graphic art, including prints and art reproductions.....	12.8	12.7	16.2
Works of art, models, or designs.....	5.3	6.8	11.0	Sculptural works.....	.8	2.4	2.9
Reproductions of works of art.....	2.5	3.0	5.0	Technical drawings and models.....	1.0	1.5	.8
Scientific or technical drawings.....	.8	.8	.9	Photographs.....	1.4	1.2	1.2
Photographs, prints, and illustrations.....	4.2	4.5	6.6	Cartographic works.....	1.2	1.7	.8
Commercial prints and labels.....	8.1	5.3	4.7	Commercial prints and labels.....	7.8	2.6	4.7
Motion picture photoplays.....	2.8	1.2	1.0	Works of applied art.....	6.1	13.2	14.2
Motion pictures not photoplays.....	.7	1.3	2.0	Sound recordings.....	9.1	10.7	12.8
Sound recordings <sup>1</sup> .....	(x)	(x)	8.9	Multimedia works.....	.6	1.3	2.0
Renewals of all classes.....	21.4	23.3	28.2	Machine readable works.....	.6	1.2	1.9
				Renewals.....	21.2	27.0	33.0

X Not applicable. Z Less than 50. <sup>1</sup> Registrations began in 1972. <sup>2</sup> Extrapolated from 11 months. Includes 50,000 registrations in-process but not completed on Sept. 30, 1978. <sup>3</sup> Due to a change in the copyright law, data for 1978 and later years are not comparable with previous years.

Source: The Library of Congress, *Annual Report*.

## No. 976. QUANTITY OF BOOKS SOLD AND VALUE OF U.S. DOMESTIC CONSUMER EXPENDITURES, BY TYPE OF PUBLICATION AND BY MARKET AREA: 1974 TO 1979

[Includes all titles released by publishers in the U.S. and imports which appear under the imprints of American publishers. Multi-volume sets, such as encyclopedias, are counted as one unit.]

ITEM	UNITS SOLD (millions)					CONSUMER EXPENDITURES (mil. dol.)				
	1974	1976	1977	1978	1979	1974	1976	1977	1978	1979
Total.....	1,411	1,435	1,529	1,609	1,641	3,954	5,058	5,762	6,612	7,250
TYPE OF PUBLICATION										
Trade.....	272	260	287	323	324	897	1,071	1,265	1,508	1,586
Adult.....	187	176	194	217	222	711	858	1,033	1,239	1,310
Hardbound.....	107	99	111	128	126	548	632	763	913	955
Juvenile.....	85	84	93	106	102	186	213	232	267	276
Hardbound.....	50	48	53	54	59	161	177	188	201	211
Religious.....	62	94	106	112	108	206	350	401	432	464
Hardbound.....	28	40	44	44	41	180	251	281	299	321
Professional.....	46	47	51	50	53	441	566	645	775	868
Hardbound.....	24	26	29	28	29	351	442	509	613	686
Bookclubs.....	196	207	212	231	221	287	360	396	455	493
Hardbound.....	59	58	57	61	64	215	266	286	128	124
University Press.....	8	8	7	8	8	49	56	58	65	71
Hardbound.....	4	4	3	4	4	39	44	44	49	54
Elhi text <sup>1</sup> .....	270	242	247	252	261	605	662	739	817	913
Hardbound.....	108	86	92	92	100	351	358	405	440	504
College text <sup>1</sup> .....	83	84	84	89	92	482	665	720	828	926
Hardbound.....	56	58	54	57	60	377	531	553	636	716
Mail order publications.....	30	40	40	43	46	253	378	405	452	499
Mass market paperbacks.....	443	452	494	500	527	477	691	860	965	1,073
Subscription reference.....	1	1	1	1	1	257	259	273	317	357
MARKET AREA										
General retailers.....	533	560	618	664	691	1,150	1,594	1,889	2,221	2,497
College stores.....	183	185	197	201	189	685	911	1,047	1,199	1,223
Libraries and institutions.....	59	62	66	70	71	323	434	486	556	601
Schools.....	304	288	301	305	318	771	846	954	1,053	1,176
Direct to consumers.....	262	288	300	317	319	960	1,203	1,305	1,488	1,659
Other.....	70	52	47	52	53	65	70	81	95	94

<sup>1</sup> Elementary, high school, and college workbooks, manuals, reprints, and objective tests included in paperbound.

Source: Book Industry Study Group, Inc., *Book Industry Trends*, 1980. (Copyright.)

## Communications

## NO. 977. NEW BOOKS AND NEW EDITIONS PUBLISHED, BY SUBJECT: 1960 TO 1980

[Prior to 1978, book entries comprise all titles submitted for listing in Bowker's *Weekly Record* during calendar year. Beginning 1978, covers listings in year shown, plus titles issued in that year which were listed in following six months. Comprises new books (published for first time) and new editions (published with changes in text or format). Excludes government publications; books sold only by subscription; dissertations; periodicals and quarterlies; and pamphlets under 49 pages. 1960 data not strictly comparable with later years due to changes in classifications. See also *Historical Statistics, Colonial Times to 1970*, series R 191-216.]

SUBJECT	1960	1965	1970	1975	1978	1979	1980		
							Total	New books	New editions
<b>Total</b>	<b>15,012</b>	<b>28,595</b>	<b>36,071</b>	<b>39,372</b>	<b>41,216</b>	<b>45,182</b>	<b>42,377</b>	<b>34,030</b>	<b>8,347</b>
Agriculture	156	270	265	456	552	538	461	382	79
Art	470	974	1,169	1,561	1,483	2,021	1,691	1,437	254
Biography	879	685	1,538	1,968	1,891	2,042	1,891	1,399	492
Business	305	537	797	820	1,248	1,382	1,165	935	250
Education	348	954	1,178	1,038	1,083	1,121	1,011	876	135
Fiction	2,440	3,241	3,137	3,805	3,693	3,264	2,835	1,918	817
General reference	282	634	846	1,113	1,310	1,471	1,643	1,428	215
History	865	1,662	1,995	1,823	2,016	2,160	2,220	1,569	651
Home economics	197	300	321	728	845	897	879	787	112
Juvenile	1,725	2,895	2,640	2,292	2,909	3,052	2,859	2,585	274
Language	228	527	472	438	458	560	529	433	96
Law	394	436	604	915	1,065	1,218	1,102	816	286
Literature	736	1,688	3,085	1,804	1,800	1,749	1,686	1,317	369
Medicine	520	1,218	1,476	2,282	2,788	3,257	3,292	2,667	625
Music	98	800	404	305	439	389	357	236	121
Philosophy, psychology	480	979	1,280	1,374	1,367	1,377	1,429	1,097	332
Poetry, drama	492	994	1,474	1,501	1,297	1,361	1,179	962	217
Religion	1,104	1,855	1,788	1,773	2,180	2,325	2,055	1,635	420
Science	1,089	2,562	2,358	2,942	2,877	3,156	3,109	2,551	556
Sociology, economics	754	3,242	5,912	6,590	6,465	7,715	7,152	5,876	1,276
Sports, recreation	286	591	799	1,225	1,180	1,122	971	808	163
Technology	698	1,153	1,141	1,720	1,896	2,391	2,397	1,923	414
Travel	466	883	1,394	794	414	634	504	413	91

Source: R. R. Bowker Co., New York, N.Y., *Publishers Weekly*. (Copyright by Xerox Corporation.)

## NO. 978. BOOKS AND PERIODICALS—AVERAGE RETAIL PRICES: 1970 TO 1980

[See headnote, table 977]

SUBJECT	BOOKS (per vol.)				SUBJECT	PERIODICALS <sup>6</sup>			
	1970	1975	1979	1980		1970	1975	1979	1980
<b>Hard cover books <sup>1</sup></b>	<b>\$11.86</b>	<b>\$16.19</b>	<b>\$23.96</b>	<b>\$24.64</b>	<b>Total</b>	<b>\$10.41</b>	<b>\$19.94</b>	<b>\$30.37</b>	<b>\$34.54</b>
Agriculture	10.42	13.72	20.84	27.55	Agriculture	5.17	9.70	14.16	15.24
Art	16.16	17.90	21.95	27.70	Business and economics	9.03	15.26	22.97	25.42
Biography	11.49	14.09	17.52	18.77	Chemistry and physics	33.45	76.84	118.33	137.45
Business	12.45	16.54	23.11	22.45	Children's periodicals	2.65	4.69	6.70	7.85
Economics <sup>2</sup>	12.38	21.65	43.57	31.76	Education	7.09	14.72	21.61	23.45
Education	10.75	10.81	15.10	17.01	Engineering	12.07	26.64	42.95	49.15
Fiction	5.51	8.31	11.99	12.46	Fine and applied arts	7.50	11.09	17.42	18.67
General reference	(NA)	21.80	28.56	29.84	History	6.90	11.14	14.67	15.77
History	14.75	15.85	19.79	22.78	Home economics	7.56	14.24	23.21	24.63
Home economics	7.30	10.27	11.95	13.31	Industrial arts	7.59	10.59	17.65	20.70
Juveniles	4.05	5.82	7.14	8.16	Journalism, communications	6.36	14.70	23.86	27.34
Language	(NA)	15.80	18.25	22.16	Labor and industrial relations	3.59	7.40	15.74	18.84
Law	16.41	23.22	29.44	33.25	Law	9.84	15.00	20.98	23.00
Literature	11.05	14.89	17.64	18.70	Library science	7.88	14.16	20.82	23.25
Medicine	18.05	22.15	29.27	34.28	Literature and languages	6.15	10.41	13.84	15.30
Music	11.44	14.83	18.93	21.79	Mathematics, botany, geology, and general science	18.11	35.95	58.84	67.54
Philosophy, psychology	10.72	12.75	17.98	21.70	Medicine	23.44	42.38	63.31	73.37
Poetry and drama	8.85	10.76	15.83	17.85	Philosophy and religion	5.84	9.05	13.25	14.73
Religion	8.51	11.16	14.83	17.61	Physical ed. and recreation	5.34	7.80	12.27	13.83
Science	14.95	22.81	30.59	37.45	Political science	6.72	12.79	17.47	19.80
Sports <sup>3</sup>	9.96	10.97	13.68	15.92	Psychology	17.12	27.51	38.10	41.95
Technology	14.91	19.66	27.82	33.84	Sociology and anthropology	7.31	14.65	23.70	27.56
Travel	(NA)	15.43	15.02	16.80	Zoology	16.86	27.37	40.15	44.58
Paperbacks:					General interest periodicals	8.47	14.36	18.28	19.87
Mass market <sup>4</sup>	95	1.48	2.08	(NA)					
Trade or higher	4.81	5.24	7.21	8.80					

NA Not available. <sup>1</sup> Excludes publications of U.S., and other governmental units; books sold only by subscription and dissertations. <sup>2</sup> Includes sociology. <sup>3</sup> Includes recreation. <sup>4</sup> "Pocket-sized" books sold primarily through magazine and news outlets, supermarkets, variety stores, etc. <sup>5</sup> Average annual subscription prices.

Source: R. R. Bowker Co., New York, N.Y., books, *Publishers Weekly*; periodicals, *Bowker Annual of Library and Book Trade Information*, and *Library Journal*, Sept. 1981. (Copyright by Xerox Corporation.)

# Books and Pamphlets

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## No. 979. BOOKS AND PAMPHLETS—QUANTITY SOLD AND RECEIPTS: 1967 TO 1977

[Includes copies sold and dollar receipts reported by establishments classified in the "Books, publishing and printing" industry and by establishments reporting these receipts as "secondary" activities in other industries]

TYPE OF PUBLICATION	COPIES SOLD (mil.)			RECEIPTS (mil. dol.)		
	1967	1972	1977	1967	1972	1977
<b>Total</b> .....	(NA)	(NA)	(NA)	<b>2,255.3</b>	<b>2,915.4</b>	<b>5,007.7</b>
All books .....	(NA)	(NA)	(NA)	<b>2,081.2</b>	<b>2,711.2</b>	<b>4,640.5</b>
Textbooks .....	(NA)	(NA)	(NA)	<sup>1</sup> 733.6	<sup>1</sup> 809.8	<sup>1</sup> 1,408.7
Elementary, grades 1-8; Hardbound .....	85.1	65.8	65.0	180.6	162.4	252.6
Paperbound .....	30.0	44.5	45.0	24.3	57.5	97.0
High school, grades 9-12; Hardbound .....	36.3	40.5	33.5	122.7	132.4	180.1
Paperbound .....	11.6	7.3	9.8	14.9	12.8	28.4
College, grades 13 and over; <sup>2</sup> Hardbound .....	41.2	57.1	57.2	226.6	277.3	465.9
Paperbound .....	16.7	(S)	23.6	32.7	45.1	113.1
Workbooks, paperbound .....	124.3	97.1	(S)	88.8	86.7	220.8
Standardized tests, paperbound <sup>3</sup> .....	188.0	24.1	(S)	28.5	14.2	27.1
General reference books .....	(NA)	(NA)	(NA)	235.3	305.4	
Subscription <sup>4</sup> .....	33.1	(S)	(S)	216.3	198.5	225.8
Technical, scientific, and professional books .....	(NA)	(NA)	(NA)	<sup>1</sup> 240.2	<sup>1</sup> 403.0	<sup>1</sup> 684.1
Law, designed for the profession .....	8.4	28.2	16.0	74.0	146.9	266.8
Medical, designed for the profession <sup>5</sup> .....	8.5	(S)	11.2	41.0	55.1	140.5
Business, nonfiction, for adults .....	3.7	5.3	4.7	20.1	42.0	34.0
Religious books, total <sup>6</sup> .....	(NA)	(NA)	(NA)	<sup>1</sup> 110.4	<sup>1</sup> 131.2	<sup>1</sup> 236.3
Bibles, complete editions; testaments .....	10.5	29.3	19.4	36.7	52.6	82.8
Hymnals and devotional <sup>7</sup> .....	7.8	6.6	9.2	15.4	9.0	21.0
Other: <sup>8,9</sup> Hardbound .....	14.7	18.3	22.8	29.7	30.0	68.9
Paperbound .....	24.1	39.7	48.3	15.7	28.3	52.2
General books, trade, etc. ....	(NA)	(NA)	(NA)	<sup>1</sup> 657.7	<sup>1</sup> 1,006.7	<sup>1</sup> 1,895.6
Book club books <sup>10</sup> .....	147.2	112.2	148.8	201.5	131.3	343.3
Wholesale paperbound books, digest size .....	201.1	159.8	566.7	67.7	90.3	460.1
Adult trade books: <sup>8,10</sup> Hardbound .....	52.7	(S)	91.3	148.9	232.1	382.6
Paperbound .....	148.6	385.8	75.1	82.7	220.5	144.2
Juvenile: <sup>11</sup> \$1.00 and over retail .....	65.3	63.8	(D)	114.6	88.2	161.2
Under \$1.00 retail .....	144.3	(D)	(D)	35.1	(D)	
Other books, excluding pamphlets .....	(NA)	(NA)	(NA)	(NA)	125.4	110.4
<b>Pamphlets</b> .....	(S)	(NA)	(NA)	(S)	48.7	<sup>1</sup> 49.1
Religious .....	69.9	(NA)	191.0	(2.1)	(NA)	44.6
Other .....	(S)	(NA)	(NA)	(S)	(NA)	
<b>Books and pamphlets, not specified</b> .....	(NA)	(NA)	(NA)	97.0	155.5	318.1

D Withheld to avoid disclosing figures for individual companies. NA Not available. S Does not meet publication standards. <sup>1</sup> Includes receipts not specified by kind, as follows (in millions of dollars): Textbooks, 1967, 14.7; 1972, 19.2; and 1977, 23.8; general reference, 1972, 36.8; 1977, 79.6; technical, scientific, and professional, 1967, 105.1; 1972, 155.0; and 1977, 242.8; religions, 1967, 12.9; 1972, 11.3; and 1977, 11.4; general, 1967, 14.3; 1972, withheld; and 1977, 404.2; pamphlets, 1977, 4.6. <sup>2</sup> Includes private business and secretarial school, post-high vocational schools, institutes, and training courses of college grade. <sup>3</sup> Objective tests, manuals, etc.; includes answer sheets. <sup>4</sup> Represents books sold direct to the consumer through agents or distributors, usually on installment plan of payment. Includes multivolume encyclopedias, children's literature, biblical sets, etc. Copies sold represent number of volumes rather than sets. <sup>5</sup> Includes nursing and dental subjects. <sup>6</sup> Hardbound and paperbound. <sup>7</sup> Includes missals and prayer books. <sup>8</sup> Fiction and nonfiction. <sup>9</sup> For adults and juveniles. <sup>10</sup> Sold primarily through booksellers or book dealers (retail and wholesale) at trade discounts. Juvenile books represent hardbound and paperbound books, excluding toy books.

Source: U.S. Bureau of the Census, *Census of Manufactures: 1967*, vol. II, part 2; *1972*, MC 72(2)-27A; and *1977*, MC 77(1)-27A.

## No. 980. BOOKS—IMPORTS AND TRANSLATIONS INTO ENGLISH: 1978 TO 1980

[Data on 18 month basis. See headnote, table 977. Imports cover all books printed abroad and distributed in U.S. on exclusive basis]

SUBJECT	IMPORTS			SUBJECT	IMPORTS			LANGUAGE	TRANSLATIONS		
	1978	1979	1980		1978	1979	1980		1978	1979	1980
<b>Imports, total</b> .....	<b>3,870</b>	<b>5,458</b>	<b>5,390</b>	<b>Imports—Con.</b>				<b>Translations, total</b> .....	<b>1,345</b>	<b>1,660</b>	<b>1,353</b>
Agriculture .....	77	117	104	Law .....	57	91	112	French .....	286	315	228
Art .....	137	230	157	Literature .....	141	194	183	German .....	237	300	228
Biography .....	130	173	126	Medicine .....	446	540	671	Italian .....	62	60	62
Business .....	51	79	74	Music .....	17	34	35	Oriental .....	70	75	51
Education .....	117	169	133	Philosophy .....	101	152	218	Russian .....	102	159	106
Fiction .....	81	71	71	Psychology .....	135	139	120	Scandinavian .....	34	35	38
General works .....	107	150	132	Poetry, drama .....	87	136	94	Spanish .....	60	61	40
History .....	203	299	296	Religion .....	710	890	1,089	Other .....	494	655	600
Home economics .....	45	51	40	Sociology .....	806	1,236	1,050				
Juvenile .....	33	49	58	economics .....	71	125	85				
Language .....	74	137	134	sports, recreation .....	193	328	373				
				Technical books .....	51	74	55				
				Travel .....							

Source: R. R. Bowker Co., New York, N.Y., *Publishers Weekly*. (Copyright by Xerox Corporation.)

## Advertising Expenditures

## NO. 981. ADVERTISING—ESTIMATED EXPENDITURES: 1950 TO 1980

(In millions of dollars. 1980 preliminary. See also *Historical Statistics, Colonial Times to 1970*, series T 444-446)

YEAR	Total	National	Local	YEAR	Total	National	Local	YEAR	Total	National	Local
1950	6,700	3,260	2,440	1969	19,420	11,400	8,020	1975	28,160	15,340	12,820
1955	9,150	5,380	3,770	1970	19,550	11,360	8,200	1976	33,690	18,555	15,135
1960	11,960	7,305	4,655	1971	20,740	11,775	8,985	1977	37,920	20,850	17,070
1965	16,280	9,340	5,910	1972	23,300	13,030	10,270	1978	43,850	24,025	19,825
1967	16,870	10,210	6,680	1973	25,120	13,775	11,345	1979	49,580	27,085	22,495
1968	18,090	10,800	7,290	1974	26,820	14,810	12,010	1980	54,590	30,240	24,360

Source: McCann-Erickson, Inc., New York, N.Y. Compiled for Crain Communications, Inc. In *Advertising Age* (copyright).

## NO. 982. ADVERTISING—INDEXES OF NATIONAL ADVERTISING EXPENDITURES, BY MEDIUM: 1950 TO 1980

[1967=100. Based on the average monthly expenditure for those major media which give national coverage. See also *Historical Statistics, Colonial Times to 1970*, series T 472-484]

MEDIUM	1950	1955	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980
General Index	28	49	67	90	112	140	146	183	210	241	278	307
Network television	6	38	56	85	114	147	158	196	236	273	316	346
Spot television	3	26	53	90	125	151	164	218	223	261	291	333
Magazines	36	56	73	93	104	121	118	144	174	209	236	253
Weeklies	40	61	81	94	95	97	94	115	139	178	204	218
Women's	46	57	65	95	107	132	130	162	200	238	259	277
Monthlies	28	43	64	90	120	161	155	187	222	246	280	304
Newspapers	61	84	92	93	105	141	144	178	198	211	246	278

Source: McCann-Erickson, Inc., New York, N.Y. Compiled for Crain Communications, Inc. In *Advertising Age* (copyright).

## NO. 983. ADVERTISING—ESTIMATED EXPENDITURES, BY MEDIUM: 1965 TO 1980

(In millions of dollars, except percent. See text, page 555 for a discussion of types of advertising. See also *Historical Statistics, Colonial Times to 1970*, series R 106-109, R 123-126, and T 444-471)

MEDIUM	EXPENDITURES (mil. dol.)								PERCENT			
	1965	1970	1975	1976	1977	1978	1979	1980, prel.	1965	1970	1975	1980, prel.
Total	18,250	19,550	28,160	33,690	37,920	43,950	49,580	54,590	100.0	100.0	100.0	100.0
National	9,340	11,350	15,340	18,555	20,850	24,025	27,085	30,240	61.2	58.1	54.5	55.4
Local	9,510	8,200	12,820	15,135	17,070	19,925	22,495	24,350	38.8	41.9	45.5	44.6
Newspapers	4,426	5,704	8,442	9,910	11,132	12,707	14,493	15,641	29.0	29.2	30.0	28.5
National	784	891	1,221	1,502	1,677	1,787	2,085	2,353	5.1	4.6	4.3	4.3
Local	3,642	4,813	7,221	8,408	9,455	10,920	12,408	13,188	23.8	24.6	25.7	24.2
Magazines	1,161	1,292	1,465	1,789	2,162	2,597	2,932	3,149	7.6	6.6	5.2	5.8
Weeklies	610	617	612	748	903	1,158	1,327	1,418	4.0	3.2	2.2	2.6
Women's	269	301	368	457	585	672	730	782	1.8	1.5	1.3	1.4
Monthlies	282	374	485	584	694	767	875	949	1.8	1.9	1.7	1.8
Farm publications	71	62	74	86	90	104	120	130	.5	.3	.3	.2
Television	2,515	3,596	5,283	6,721	7,612	8,955	10,154	11,295	16.5	18.4	18.7	20.7
Network	1,237	1,658	2,306	2,857	3,460	3,975	4,599	5,040	8.1	8.5	8.2	9.2
Spot	882	1,234	1,623	2,154	2,204	2,607	2,873	3,290	5.9	6.3	5.8	6.1
Local	386	704	1,334	1,710	1,948	2,373	2,682	2,985	2.5	3.6	4.7	5.4
Radio	917	1,308	1,980	2,330	2,634	3,052	3,326	3,827	6.0	6.7	7.0	7.0
Network	60	56	83	105	137	147	161	180	.4	.3	.3	.3
Spot	275	371	436	518	546	620	667	774	1.8	1.9	1.5	1.4
Local	582	881	1,461	1,707	1,951	2,285	2,498	2,873	3.8	4.5	5.2	5.3
Direct mail	2,324	2,766	4,124	4,786	5,164	5,987	6,653	7,595	15.2	14.1	14.6	13.9
Business papers	671	740	919	1,035	1,221	1,400	1,575	1,674	4.4	3.8	3.3	3.1
Outdoor	180	234	335	383	418	466	540	610	1.2	1.2	1.2	1.1
National	120	154	220	252	290	307	355	400	.8	.8	.8	.7
Local	60	80	115	131	128	159	185	210	.4	.4	.4	.4
Miscellaneous	2,985	3,848	5,558	6,650	7,487	8,682	9,787	10,768	19.6	19.7	19.7	19.7
National	1,745	2,126	2,869	3,471	3,899	4,494	5,065	5,654	11.5	10.9	10.2	10.3
Local	1,240	1,722	2,689	3,179	3,588	4,188	4,722	5,114	8.1	8.8	9.5	9.4

Source: McCann-Erickson, Inc., New York, N.Y. Compiled for Crain Communications, Inc. In *Advertising Age* (copyright). Percentages derived by U.S. Bureau of the Census.

## NO. 984. TELEVISION—EXPENDITURES FOR NETWORK ADVERTISING: 1975 TO 1980

[In millions of dollars. See text, page 555 for a definition of network advertising]

TYPE OF PRODUCT	1975	1978	1979	1980	TYPE OF PRODUCT	1975	1978	1979	1980
<b>Expenditures.....</b>	<b>2,431</b>	<b>4,105</b>	<b>4,697</b>	<b>5,147</b>	Insurance.....	40	67	70	74
Apparel, footwear, and accessories.....	55	115	125	131	Jewelry and cameras <sup>1</sup> .....	42	103	120	119
Automotive.....	235	416	492	520	Laundry soaps, cleansers, and polishes.....	204	275	295	306
Bear and wine.....	70	200	245	242	Office equip., stationery, and supplies.....	22	32	48	57
Bldg. material, equip., fixtures.....	24	53	57	59	Pet products.....	67	123	145	144
Confectionery, soft drinks.....	85	169	241	281	Proprietary medicines.....	273	346	395	430
Consumer services.....	51	114	138	178	Publishing and media.....	8	32	26	34
Dept. and discount stores.....	56	97	82	94	Records, tapes, radios, and TV sets.....	17	46	55	50
Entertainment and amusement.....	66	164	207	235	Tobacco products and supplies.....	20	9	9	8
Food and food products.....	403	669	775	844	Toiletries and toilet goods.....	415	589	661	765
Gas, lubricants, etc.....	44	61	55	71	Toys and sporting goods.....	49	91	93	102
Horticulture.....	7	9	12	15	Travel, hotels, and resorts.....	21	42	55	53
Household equip., supplies, and furnishings.....	134	203	223	213	All other.....	23	80	73	122

<sup>1</sup> Includes optical goods.

## NO. 985. TELEVISION—ESTIMATED TIME CHARGES FOR SPOT ADVERTISING: 1975 TO 1980

[In millions of dollars. Data represent activity in the 75 markets monitored by Broadcast Advertisers Reports, Inc. (BAR), covering approximately 276 stations. See text, page 555 for a definition of spot advertising]

TYPE OF PRODUCT	1975	1978	1979 <sup>1</sup>	1980 <sup>1</sup>	TYPE OF PRODUCT	1975	1978	1979 <sup>1</sup>	1980 <sup>1</sup>
<b>Estimated time charges.....</b>	<b>1,245</b>	<b>1,977</b>	<b>2,204</b>	<b>2,496</b>	Insurance.....	18	27	30	34
Apparel, footwear, and accessories.....	34	44	68	105	Jewelry, optical goods, and cameras.....	11	34	46	55
Automotive.....	99	181	196	223	Laundry soaps, polishes.....	70	102	110	111
Bear and wine.....	50	88	114	156	Office equip., stationery, and supplies.....	5	7	9	15
Building material, equipment, and fixtures.....	17	39	42	47	Pet products.....	36	34	33	33
Confectionery, soft drinks.....	99	184	196	212	Proprietary medicines.....	71	79	86	93
Consumer services.....	37	54	65	83	Publishing and media.....	24	61	80	78
Food and food products.....	283	414	456	507	Records, tapes, radios, and TV sets.....	59	95	91	73
Gasoline, lubricants, etc.....	20	38	33	50	Tobacco prod., suppliers.....	3	4	5	8
Horticulture .....	8	13	* 26	35	Toiletries and toilet goods.....	115	165	181	223
Household equipment and supplies, furnishings.....	76	123	126	133	Toys and sporting goods.....	61	109	127	109
					Travel, hotels, and resorts.....	36	52	56	76
					All other .....	13	30	28	37

<sup>1</sup> Beginning 1979, some advertising previously identified as local is classified as spot. Therefore, data not strictly comparable with previous years.<sup>2</sup> Due to a definition change, data not strictly comparable with earlier years.

## NO. 986. TELEVISION—EXPENDITURES FOR RETAIL/LOCAL ADVERTISING: 1975 TO 1980

[In millions of dollars. See text, page 555 for a definition of retail/local advertising]

TYPE OF PRODUCT	1975	1978	1979 <sup>1</sup>	1980 <sup>1</sup>	TYPE OF PRODUCT	1975	1978	1979 <sup>1</sup>	1980 <sup>1</sup>
<b>Expenditures.....</b>	<b>841</b>	<b>1,572</b>	<b>1,797</b>	<b>1,983</b>	Health clubs, reducing salons.....	7	16	19	21
Amusements, entertainment .....	23	46	58	68	Home building, construction, building supplies.....	13	23	29	35
Appliance stores, repair.....	16	35	38	38	Hotels, resorts, U.S.....	7	13	16	18
Auto repair, serv. stations.....	7	22	26	28	Jewelry stores.....	7	13	17	19
Auto supply, accessory stores.....	6	13	13	12	Loan, mortgage companies.....	10	11	12	12
Auto, truck dealers.....	45	112	122	99	Mall order, catalog showrooms .....	3	11	12	13
Banks, S&L associations.....	85	126	140	141	Medical, dental services .....	2	7	11	13
Builders, real estate .....	14	41	46	26	Movies.....	59	73	94	102
Carpet, floor covering stores .....	12	19	24	24	Newspapers.....	7	14	13	15
Clothing stores.....	19	32	40	46	Optical services, supplies.....	3	7	10	14
Department stores.....	87	126	118	131	Radio, TV stations .....	(NA)	35	62	69
Discount dept. stores.....	34	62	68	74	Restaurants, drive-ins .....	115	220	263	288
Drug stores.....	10	20	23	26	Shoe stores .....	5	10	19	27
Food stores, supermarkets .....	71	118	134	149	Shopping centers, ass'tns .....	7	10	12	13
Furniture stores.....	43	80	104	111	Sport, hobby, toy stores .....	8	16	21	23
Gas, electric, water companies .....	9	13	15	16	All other .....	109	219	214	293
Hardware stores .....	5	9	13	19					

NA Not available. <sup>1</sup> Beginning 1979, some advertising previously identified as local is classified as spot. Therefore, data not strictly comparable with previous years.

Source of tables 984-986: Television Bureau of Advertising, Inc., New York, N.Y., from data compiled by Broadcast Advertisers Reports, Inc., New York, N.Y.

## Communications

## NO. 987. NEWSPAPER ADVERTISING—EXPENDITURES FOR 64 CITIES: 1957 TO 1980

[In millions of dollars. Based on stratified random sample of 64 cities of different size, including suburban and central city newspapers]

TYPE OF ADVERTISING	1957	1970	1973	1974	1975	1976	1977	1978	1979	1980
Total	1,611	3,120	3,668	3,845	4,117	5,352	5,698	6,666	7,641	8,192
Automotive	63	93	96	109	93	127	145	151	196	184
Classified	313	724	985	967	982	1,342	1,522	1,692	2,179	2,192
Financial	42	117	195	135	131	148	147	203	244	298
General	326	426	471	514	547	731	752	827	982	1,123
Retail	856	1,759	1,980	2,120	2,364	3,005	3,129	3,593	4,040	4,396

Source: Compiled by Media Records, Inc. Current data in U.S. Bureau of Economic Analysis, *Survey of Current Business*, monthly.

## NO. 988. NEWSPAPER ADVERTISING—EXPENDITURES FOR NATIONAL ADVERTISING, BY TYPE OF PRODUCT: 1975 TO 1980

[In millions of dollars. Data are compiled on basis of actual space measurements of bulk of national advertising carried by weekday and Sunday newspapers. Excludes production costs]

TYPE OF PRODUCT	1975	1978	1979	1980	TYPE OF PRODUCT		1975	1978	1979	1980
					1975	1978	1979	1980	1975	1980
Total	1,142.1	1,671.9	1,950.4	2,184.1	Industrial		13.9	21.2	29.0	40.7
Alcoholic beverages	72.2	72.0	89.2	102.9	Insurance		20.2	28.9	34.0	36.4
Liquors	64.2	60.6	75.2	86.5	Jewelry, watches, silverware		3.2	3.9	6.1	8.1
Amusements	6.2	8.7	12.6	11.8	Mail order		41.9	58.0	54.4	60.6
Automotive	175.7	269.0	336.9	313.1	Medical products, drugs		12.9	21.6	20.4	22.9
New passenger cars	129.6	204.7	248.7	226.2	Pets and pet supplies		8.4	11.0	9.2	8.9
Cameras, photo supplies and services	10.0	15.6	13.2	14.9	Political		5.2	25.7	8.3	26.7
Educational	10.0	17.6	20.8	24.5	Professional and services		5.6	7.0	6.4	9.0
Farm and garden	18.5	22.7	27.0	29.7	Public service utilities and communications		19.2	32.1	37.6	50.6
Foods	131.1	153.6	167.5	186.3	Publishing		83.4	128.3	154.9	177.7
Franchise offers	3.0	5.0	5.3	5.3	Books		21.9	26.1	32.2	32.8
Help wanted	10.3	39.9	55.2	58.7	Radio and TV		48.4	86.5	102.9	(NA)
Home heat, and equip.	2.9	5.8	8.0	13.2	Real estate		8.8	7.8	11.0	16.5
Hotels and resorts	44.1	54.8	67.9	76.3	Sporting equipment		6.9	8.1	6.9	7.6
Household furniture and furnishings	7.4	7.7	9.9	13.1	Tobacco		148.1	228.8	292.7	313.8
Household supplies	24.8	33.7	36.6	41.8	Toiletries, toilet goods		16.1	25.4	27.9	30.8
Hsehd. equip. and appl.	30.4	53.7	46.7	53.0	Transportation		154.7	211.9	235.5	296.8

NA Not available. <sup>1</sup> Includes other media not shown separately. <sup>2</sup> Includes leisure time equipment.

Source: Media Records, Inc., New York, N.Y., *Marketing and Media Decisions*, June 1981.

## NO. 989. MAGAZINE ADVERTISING—EXPENDITURES, BY PRODUCT: 1970 TO 1980

[In millions of dollars, except percent. Space cost based on one-time rate; special rates used where applicable. Year-to-year data not strictly comparable, as a few minor publications are added or deleted]

TYPE OF PRODUCTION	1970	1975	1977	1978	1979	1980	PERCENT DISTRIBUTION		
							1970	1975	1980
Expenditures	1,181	1,336	1,965	2,374	2,671	2,846	100.0	100.0	100.0
Apparel, footwear, and accessories <sup>1</sup>	51	47	70	86	92	112	4.3	3.5	3.1
Automotive, incl. accessories and equipment <sup>1</sup>	95	102	177	228	224	229	8.0	7.6	8.0
Bear, wine, and liquor	98	101	132	193	236	239	8.3	7.6	8.4
Consumer services <sup>2</sup>	74	102	119	147	172	190	6.3	7.8	6.7
Drugs and remedies	38	34	51	57	71	78	3.2	2.5	2.7
Food and food products	86	87	140	174	186	199	7.3	6.6	7.0
Household equipment and supplies <sup>1</sup>	33	25	47	63	67	65	2.8	1.9	2.3
Household furnishings <sup>1</sup>	36	31	66	85	64	73	3.2	2.3	2.6
Industrial materials <sup>1</sup>	44	34	49	58	70	71	3.7	2.6	2.5
Insurance	26	22	39	45	53	56	2.2	1.7	2.0
Radios, TV's, phones, musical instruments <sup>3</sup>	38	35	58	76	80	84	3.2	2.6	3.0
Smoking materials	65	144	194	205	281	290	5.5	10.8	10.2
Toiletries and toilet goods <sup>1</sup>	119	106	151	163	198	206	10.1	7.9	7.2
Travel, hotels, and resorts	50	65	83	98	110	123	4.2	4.9	4.3
All other (incl. retail and/or direct-mail) <sup>1</sup>	326	402	588	696	767	831	27.6	30.1	29.2

<sup>1</sup> Due to classification changes, 1970, data not comparable with later years. <sup>2</sup> Includes business services. <sup>3</sup> Includes accessories.

Source: Magazine Publishers Association, Inc., New York, N.Y., from data compiled by Publishers Information Bureau, Inc.



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## Section 20

# Energy

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This section presents statistics on fuel resources, energy production and consumption, electric energy, hydropower, nuclear power, and the electric and gas utility industries. The principal sources are the U.S. Department of Energy's Energy Information Administration (EIA), the Edison Electric Institute, New York, and the American Gas Association, Arlington, Va. The Department of Energy was created in October 1977 and assumed and centralized the responsibilities of all or part of several agencies including the Federal Power Commission (FPC), the U.S. Bureau of Mines, the Federal Energy Administration, and the U.S. Energy Research and Development Administration. For additional data on fuels, see section 27.

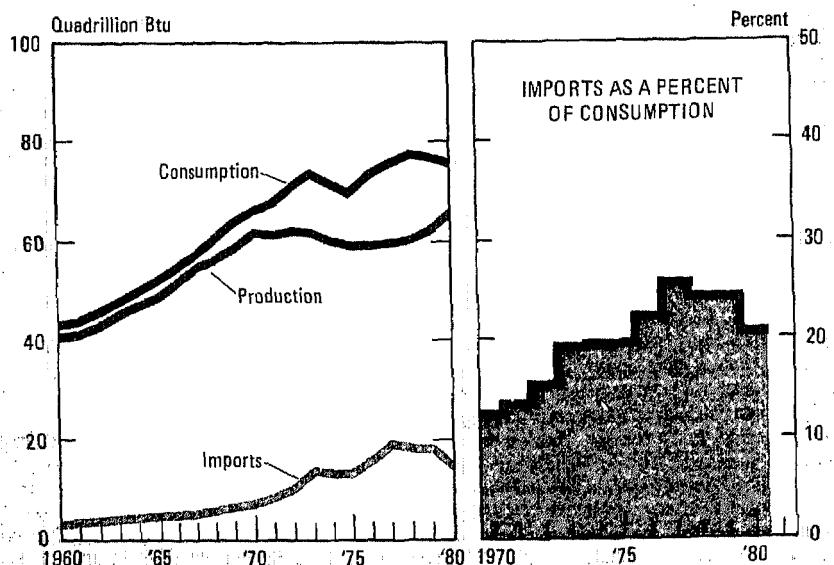
The EIA, in its *Annual Report to Congress*, provides statistics and trend data on energy supply, demand, and prices. Information is included on petroleum and natural gas, coal, electricity, nuclear power, and solar and geothermal energy. Among its annual reports are *Statistics of Privately Owned Electric Utilities in the United States*; *Statistics of Publicly Owned Electric Utilities in the United States*; *Power Production, Fuel Consumption, and Installed Capacity Data*; *Gas Turbine Plant Construction Cost and Annual Production Expenses*; *Statistics for Interstate Natural Gas Pipeline Companies*; and *Typical Electric Bills*. These various publications contain national and State data on production of electricity, capacity of generating plants, fuels used in energy production, energy sales and consumption, hydroelectric power, construction costs and production expenses of power plants, and depreciation practices. The EIA also issues the annual *Inventory of Power Plants*, periodic *Energy Data Reports*, *Electric Power Monthly* and the *Monthly Energy Review*. Data on residential energy consumption, expenditures, and conservation activities are available from EIA's Residential Energy Consumption Survey and are published in *Residential Energy Consumption Survey: 1979-1980 Consumption and Expenditures*, and *Residential Energy Consumption Survey: Conservation*, and several other reports.

The Edison Electric Institute's monthly bulletin and annual *Statistical Year Book of the Electric Utility Industry for the Year* contain data on the distribution of electric energy by public utilities; information on the electric power supply, expansion of electric generating facilities, and the manufacture of heavy electric power equipment is presented in the annual *Year End Summary of the Electric Power Situation in the United States*. The American Gas Association, in its monthly and quarterly bulletins and its yearbook, *Gas Facts*, presents data on gas utilities, including sales, revenues, customers, prices, and other financial and operating statistics.

**Btu conversion factors.**—Various energy sources are converted from original units (e.g., short tons, cubic feet, barrels, kilowatt-hours) to the thermal equivalent using British thermal units (Btu). A Btu is the amount of energy required to raise the temperature of 1 pound of water 1 degree Fahrenheit at or near 39.2 degrees F. Factors are calculated annually from the latest final annual data available; some are revised as a result. The following list provides conversion factors used in 1979 and 1980 for production and consumption, in that order, for various fuels: Petroleum 5,800 and 5,494 mil. Btu per barrel; bituminous coal 22.59 and 22.20 mil. Btu per short ton; and anthracite coal 23.55 and 22.70 mil. Btu per short ton. Both production and consumption factors for natural gas were 22.10, while the factors for the production of hydropower, nuclear power, and geothermal power were 10.44, 10.77, and 21.61 thous. Btu per kilowatt-hour, respectively.

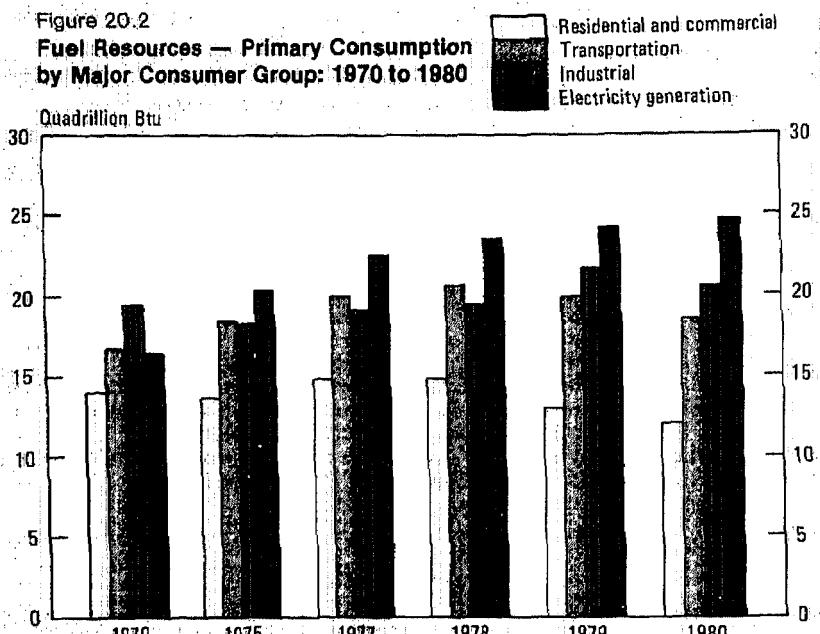
**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

**Figure 20.1**  
**Energy Production, Consumption, and Imports: 1960 to 1980**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 992.

**Figure 20.2**  
**Fuel Resources — Primary Consumption by Major Consumer Group: 1970 to 1980**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1000.

## NO. 990. TOTAL HORSEPOWER OF ALL PRIME MOVERS: 1950 TO 1980

[In millions, except percent. As of January, except as noted. Prior to 1960, excludes Alaska and Hawaii, except as noted. Prime movers are mechanical engines and turbines, and work animals, which originally convert fuels or force (as wind or falling water) into work and power. Electric motors, which obtain their power from prime movers, are excluded to avoid duplication. See also *Historical Statistics, Colonial Times to 1970*, series S 1-14.]

YEAR	Total horse- power	AUTOMOTIVE <sup>1,2</sup>		Total	NONAUTOMOTIVE					
		Total	Percent of total		Frac- tories <sup>3</sup>	Mines <sup>3</sup>	Rail- roads <sup>4</sup>	Mer- chant ships and sailing vessels	Farms	Electric cen- tral sta- tions <sup>2</sup>
1950	4,868	4,104	90.5	464	33	22	111	23	165	88
1955	7,158	6,632	92.7	526	36	31	60	24	212	138
1960	11,008	10,367	94.2	641	42	35	47	24	240	217
1965	15,096	14,306	94.8	790	48	40	44	24	272	307
1970	20,408	19,325	94.7	1,083	54	45	54	22	290	435
1972	22,913	21,736	94.9	1,175	57	46	57	21	305	508
1973	24,262	23,028	94.9	1,233	58	46	57	20	308	562
1974	24,516	23,224	94.7	1,292	59	46	61	21	315	605
1975	25,100	23,752	94.6	1,348	60	47	62	22	318	654
1976	25,732	24,339	94.6	1,393	61	47	64	22	324	692
1977	26,469	26,025	94.5	1,444	62	47	62	23	328	728
1978	27,379	25,892	94.6	1,487	63	48	64	25	335	754
1979	28,182	26,617	94.5	1,545	63	48	62	26	342	803
1980	28,922	27,382	94.6	1,560	64	48	59	26	345	806

<sup>1</sup> Includes passenger cars, trucks, buses, and motorcycles. <sup>2</sup> As of July 1. <sup>3</sup> Beginning 1965, data are estimates. <sup>4</sup> Beginning 1965, not strictly comparable with earlier years. <sup>5</sup> Includes private planes and commercial airlines. <sup>6</sup> Includes Alaska and Hawaii.

<sup>7</sup> Includes estimates of about 3.0 million hp in work animals and 30,000 in windmills.

Source: 1950 and 1955, The Twentieth Century Fund, New York, N.Y., J.F. Dewhurst and Associates, *America's Needs and Resources, A New Survey*, and John A. Waring, *Transactions of Canadian Sectional Meeting, World Power Conference, 1958*. Beginning 1960, John A. Waring, Murfreesboro, N.C., unpublished estimates.

## NO. 991. MINERAL FUEL RESOURCES AND ELECTRICITY—PRODUCTION AND CONSUMPTION, BY MAJOR SOURCE: 1950 TO 1980

[A British thermal unit (Btu) is the quantity of heat required to raise the temperature of 1 pound of water 1° F at or near its point of maximum density. Prior to 1960, excludes Alaska and Hawaii, except data for bituminous coal include Alaska for all years. For Btu conversion factors, see text, p. 575. See also *Historical Statistics, Colonial Times to 1970*, series M 75-92.]

YEAR	Total pro- duc- tion (quad. Btu)	PERCENT OF PRODUCTION				Total con- sumption (quad. Btu)	PERCENT OF CONSUMPTION				Consump- tion/ produc- tion ratio
		Coal	Crude petro- leum <sup>1</sup>	Natu- ral gas <sup>2</sup>	Elec- tricity <sup>3</sup>		Coal	Crude petro- leum <sup>1</sup>	Natu- ral gas <sup>2</sup>	Elec- tricity <sup>3</sup>	
1950	34.5	42.7	33.4	20.0	3.9	33.6	38.1	39.8	18.1	4.0	.87
1955	39.1	32.6	37.0	27.0	3.4	39.2	29.1	44.2	23.3	3.5	1.00
1960	41.8	26.7	35.7	33.8	3.8	44.1	22.8	45.1	28.5	3.6	1.06
1961	42.3	25.4	36.0	34.7	3.9	44.7	21.9	45.2	29.2	3.7	1.06
1962	43.9	25.5	35.4	35.0	4.1	46.8	21.5	44.9	29.8	3.8	1.07
1963	46.2	26.4	34.6	35.2	3.8	48.6	21.7	44.5	30.1	3.6	1.05
1964	48.0	26.8	33.6	35.7	3.9	50.8	22.0	43.7	30.6	3.7	1.06
1965	49.7	27.0	33.3	35.6	4.2	53.0	22.3	43.6	30.2	3.9	1.07
1966	52.5	26.4	33.5	36.2	4.0	56.8	22.3	45.2	30.4	2.1	1.07
1967	55.4	25.7	33.7	36.3	4.3	57.9	21.0	43.5	31.3	4.1	1.05
1968	57.1	24.4	33.7	37.6	4.3	61.3	20.5	43.8	31.7	4.0	1.07
1969	59.4	24.0	32.9	39.5	4.7	64.5	19.8	43.8	32.4	4.3	1.09
1970	62.5	24.3	32.6	38.6	4.5	66.8	18.9	44.0	32.8	4.3	1.07
1971	61.7	22.0	32.5	40.2	5.3	69.3	17.6	44.7	32.9	4.7	1.11
1972	62.8	23.1	31.9	39.5	5.5	71.6	17.3	46.0	31.7	4.9	1.14
1973	62.4	23.0	31.2	39.7	6.1	74.6	17.8	46.7	30.2	5.2	1.20
1974	61.2	23.7	30.4	38.7	7.2	72.8	17.7	45.0	29.9	7.4	1.19
1975	60.1	25.6	29.5	36.6	8.4	70.7	18.2	46.4	28.3	7.2	1.18
1976	60.1	26.5	28.7	36.3	8.5	74.5	18.4	47.2	27.3	7.1	1.24
1977	60.3	26.3	28.9	36.3	8.5	76.3	18.3	48.7	28.1	6.9	1.27
1978	61.2	24.6	30.1	35.5	9.8	78.2	17.7	48.6	25.8	8.1	1.28
1979	63.9	27.6	28.3	35.0	9.1	79.0	19.1	47.0	26.2	7.6	1.24
1980, pre..	64.9	29.1	28.1	33.9	8.8	76.3	20.6	44.8	26.8	7.8	1.17

<sup>1</sup> Production includes lease condensate. Consumption includes domestically produced crude oil, natural gas liquids, and lease condensate, plus imported crude oil and products. <sup>2</sup> Production includes natural gas liquids; consumption excludes natural gas liquids. <sup>3</sup> Comprised of hydropower, nuclear power, and geothermal energy.

Source: U.S. Energy Information Administration, *Annual Report to Congress*, vol. II.

## NO. 992. ENERGY SUPPLY AND DISPOSITION, BY TYPE OF FUEL: 1960 TO 1980

[In quadrillion British thermal units, except percent. For Btu conversion factors, see text, p. 575]

TYPE OF FUEL	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980, proj.
Total supply <sup>1</sup> .....	45.6	54.9	69.5	73.8	76.7	76.0	73.1	76.7	78.4	80.1	81.9	80.0
Production.....	41.8	49.7	62.5	62.8	62.4	61.2	60.1	60.1	60.3	61.2	63.9	64.8
Crude oil <sup>2</sup> .....	14.9	16.5	20.4	20.0	19.5	18.6	17.7	17.3	17.5	18.4	18.1	18.3
Natural gas liquids.....	1.5	1.9	2.5	2.6	2.6	2.5	2.4	2.3	2.3	2.3	2.3	2.3
Natural gas <sup>3</sup> .....	12.7	15.8	21.7	22.2	22.2	21.2	19.6	19.5	19.6	19.5	20.1	19.7
Coal.....	11.1	13.4	15.1	14.5	14.4	14.5	15.2	15.9	15.8	15.0	17.7	18.9
Nuclear power.....	(2)	(2)	.2	.6	.9	1.3	1.9	2.1	2.7	3.0	2.8	2.7
Hydropower.....	1.6	2.1	2.6	2.9	2.8	3.2	3.2	3.0	2.3	3.0	3.0	2.9
Geothermal and other.....	-	-	(2)	(2)	.1	.1	.1	.1	.1	.1	.1	.1
Imports <sup>4</sup> .....	4.2	5.9	8.4	11.5	14.7	14.4	14.1	16.8	20.1	18.3	19.6	15.8
Percent of supply.....	9.2	10.7	12.1	15.6	19.2	19.2	19.3	21.9	25.6	24.1	23.9	19.8
Crude oil.....	2.2	2.7	2.8	4.7	6.9	7.4	8.7	11.2	14.0	13.5	13.8	11.1
Refined petroleum products <sup>5</sup> .....	1.8	2.8	4.7	5.6	6.6	5.7	4.2	4.4	4.7	4.4	4.1	3.4
Natural gas.....	.2	.5	.9	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.3	1.0
Total disposition.....	45.6	54.9	69.5	73.8	76.7	75.0	73.1	76.7	78.4	80.1	81.9	80.0
Consumption.....	44.1	53.0	66.8	71.6	74.6	72.8	70.7	74.5	76.3	78.2	79.0	76.3
Refined petroleum products.....	19.8	23.3	29.5	33.0	34.8	33.5	32.7	35.2	37.1	39.0	37.1	34.3
Natural gas <sup>3</sup> .....	12.4	15.8	21.8	22.7	22.5	21.7	20.0	20.4	19.9	20.0	20.7	20.4
Coal.....	10.1	11.9	12.7	12.5	13.3	12.9	12.8	13.7	14.0	13.9	15.1	15.7
Nuclear power.....	(2)	(2)	.2	.6	.9	1.3	1.9	2.1	2.7	3.0	2.7	2.7
Hydropower <sup>6</sup> .....	1.7	2.1	2.7	2.9	3.0	3.3	3.2	3.1	2.5	3.2	3.2	3.1
Geothermal and other.....	-	-	(2)	(2)	.1	.1	.1	.1	.1	.1	.1	.1
Exports.....	1.5	1.9	2.7	2.1	2.1	2.2	2.4	2.2	2.1	2.0	2.9	3.8
Coal.....	1.0	1.4	1.9	1.5	1.5	1.6	1.6	1.6	1.5	1.1	1.8	2.5

- Represents zero. Z Less than 50 trillion. <sup>1</sup> Includes adjustments for stock changes, losses, gains, and miscellaneous changes, not shown separately. <sup>2</sup> Includes lease condensate. <sup>3</sup> Dry marketed gas. <sup>4</sup> Includes other types, not shown separately. <sup>5</sup> Includes imports of unfinished oils and natural gas liquids. <sup>6</sup> Includes industrial generation and net electricity imports.

Source: U.S. Energy Information Administration, *Annual Report to Congress*, vol. II.

## NO. 993. ENERGY PRODUCTION AND CONSUMPTION—ANNUAL GROWTH RATES, BY TYPE OF FUEL: 1950 TO 1980

[In percent. Based on data shown in table 992. Rates represent average annual compounded changes; for explanation, see Guide to Tabular Presentation. Minus sign (–) denotes decrease]

TYPE OF FUEL	1950-1960	1960-1970	1970-1979	1970-1972	1972-1973	1973-1974	1974-1975	1975-1976	1976-1977	1977-1978	1978-1979	1979-1980
Total production.....	1.9	4.1	.1	.2	-.6	-1.9	-1.9	.1	.3	1.5	4.4	1.4
Crude oil <sup>1</sup> .....	2.7	3.2	-1.4	-.9	-2.7	-4.7	-4.5	-2.6	1.1	5.8	-1.8	.8
Natural gas liquids.....	5.9	5.6	-.6	1.8	-1.2	-3.9	-4.1	-1.7	-	-3.5	1.8	-.9
Natural gas <sup>2</sup> .....	7.4	5.5	-1.4	1.2	-.1	-4.4	-7.4	-.8	.5	-.4	8.0	-1.9
Coal.....	-2.7	3.1	1.6	-1.9	-.7	.6	5.0	4.3	.3	-5.0	17.4	6.9
Nuclear power.....	(X)	37.4	31.0	55.5	56.9	39.6	49.6	11.1	28.0	10.4	-7.7	-1.6
Hydropower.....	1.3	5.1	1.3	4.3	-.6	-10.8	-.6	-5.4	-21.5	26.5	-.1	-1.4
Geothermal and other.....	(X)	(X)	26.0	41.4	25.0	20.0	16.7	14.3	-	-33.3	31.5	27.9
Total consumption.....	2.8	4.3	1.7	3.5	4.2	-3.0	-2.3	4.9	3.2	2.3	1.0	-3.4
Refined petroleum products.....	4.1	4.0	2.6	5.7	5.7	-5.1	-1.0	6.4	6.8	2.1	-2.2	-7.7
Natural gas <sup>2</sup> .....	7.6	5.8	-.1	2.0	-.8	-3.5	-8.2	2.0	-2.1	.4	3.3	-1.1
Coal.....	-2.4	2.3	2.0	-.8	6.8	-3.2	-.5	7.1	3.0	-.8	9.1	3.7
Nuclear power.....	(X)	37.4	31.0	55.5	56.9	39.6	49.6	11.1	28.0	10.4	-7.7	-1.6
Hydropower.....	1.4	4.9	2.0	5.3	2.4	10.0	-2.7	-4.7	-17.9	25.8	.1	-1.3
Geothermal and other.....	(X)	(X)	26.0	41.4	25.0	20.0	16.7	14.3	-	-33.3	31.5	27.9
GNP <sup>4</sup> .....	3.3	4.0	3.5	4.5	5.8	-.6	-1.1	5.4	5.5	4.7	3.2	-.1

- Represents zero. X Not applicable. <sup>1</sup> Includes lease condensate. <sup>2</sup> Dry marketed gas. <sup>3</sup> Includes industrial generation and net electricity imports. <sup>4</sup> Gross national product in constant (1972) dollars; see table 700.

Source: U.S. Energy Information Administration, *Annual Report to Congress*, vol. II.

# Energy Consumption

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## No. 994. ENERGY CONSUMPTION—TOTAL AND PER CAPITA: 1950 TO 1980

[Btu=British thermal units. See text, p. 575]

YEAR	ALL ENERGY <sup>1</sup>		PETROLEUM <sup>3</sup>		NATURAL GAS <sup>4</sup>		COAL <sup>5</sup>		CONSUMPTION PER DOLLAR GNP <sup>6</sup>	
	Total (quad. Btu)	Per capita <sup>2</sup> (mil. Btu)	Total (quad. Btu)	Per capita <sup>2</sup> (mil. Btu)	Total (quad. Btu)	Per capita <sup>2</sup> (mil. Btu)	Total (quad. Btu)	Per capita <sup>2</sup> (mil. Btu)	All energy (1,000 Btu)	Petrol- eum (1,000 Btu)
1950.....	33.9	223	13.5	89	6.0	39	12.9	85	63.4	25.2
1955.....	39.7	240	17.5	106	9.0	55	11.5	70	60.4	26.6
1960.....	44.1	245	19.9	111	12.4	69	10.1	56	59.8	27.0
1965.....	53.0	274	23.3	120	15.8	81	11.9	61	57.1	25.1
1970.....	66.8	328	29.5	145	21.8	107	12.7	62	61.5	27.2
1971.....	68.3	331	30.6	148	22.5	109	12.0	58	60.9	27.3
1972.....	71.6	344	33.0	158	22.7	109	12.5	60	60.4	27.8
1973.....	74.6	355	34.8	166	22.5	107	13.3	63	59.4	27.7
1974.....	72.8	342	33.5	156	21.7	103	12.9	61	58.3	26.8
1975.....	70.7	332	32.7	154	20.0	94	12.8	60	57.3	26.5
1976.....	74.5	345	35.2	162	20.4	95	13.7	64	57.3	27.1
1977.....	76.3	354	37.1	172	19.9	92	14.0	65	55.7	27.1
1978.....	78.2	358	38.0	174	20.0	92	13.9	64	54.4	26.4
1979.....	79.0	359	37.1	169	20.7	94	15.1	69	53.3	25.0
1980, prel.	76.3	343	34.3	154	20.4	92	15.7	71	51.5	23.2

<sup>1</sup> Includes hydropower, nuclear power, geothermal and other energy, not shown separately. <sup>2</sup> Based on estimated resident population as of July 1. <sup>3</sup> Includes petroleum products, natural gas plant liquids, and crude oil burned as fuel. <sup>4</sup> Dry gas only.

<sup>5</sup> Includes bituminous coal, lignite, anthracite coal, and net imports of coke. <sup>6</sup> Gross national product in constant (1972) dollars. See table 700.

Source: U.S. Energy Information Administration, *Annual Report to Congress*, vol. II.

## No. 995. ENERGY CONSUMPTION, BY SECTOR AND PRIMARY SOURCE: 1975 TO 1980

[In trillions of Btu. For definition of Btu, see text, p. 575]

SECTOR	Total <sup>1</sup>	Coal <sup>2</sup>	Natural gas, dry	Petro- leum <sup>3</sup>	Hydro- elec- tric <sup>4</sup>	Nu- clear power	Other <sup>5</sup>	Elec- tricity distrib- uted <sup>6</sup>	Elec- tric energy loss <sup>7</sup>
<b>1975</b>									
Final consuming sectors.....	70,709	4,036	16,707	29,501	32	-	-	5,902	14,516
Residential and commercial.....	26,024	238	7,581	5,792	-	-	-	3,588	8,824
Industrial.....	26,508	3,797	6,532	6,182	32	-	-	2,304	5,667
Transportation.....	18,178	1	595	17,547	-	-	-	10	25
Electric utilities.....	20,418	8,789	3,240	3,231	3,187	1,900	72	(X)	(X)
<b>1976</b>									
Final consuming sectors.....	78,161	3,610	16,702	34,150	32	-	-	6,840	16,696
Residential and commercial.....	28,297	239	7,624	6,268	-	-	-	4,100	10,006
Industrial.....	29,311	3,372	6,539	7,838	32	-	-	2,732	6,668
Transportation.....	20,614	-	539	20,044	-	-	-	9	22
Electric utilities.....	23,537	10,250	3,297	3,813	3,132	2,977	68	(X)	(X)
<b>1977</b>									
Final consuming sectors.....	78,161	3,610	16,702	34,150	32	-	-	6,840	16,696
Residential and commercial.....	28,297	239	7,624	6,268	-	-	-	4,100	10,006
Industrial.....	29,311	3,372	6,539	7,838	32	-	-	2,732	6,668
Transportation.....	20,614	-	539	20,044	-	-	-	9	22
Electric utilities.....	23,537	10,250	3,297	3,813	3,132	2,977	68	(X)	(X)
<b>1978</b>									
Final consuming sectors.....	78,961	3,846	17,052	33,765	34	-	-	7,067	17,131
Residential and commercial.....	27,152	210	7,891	4,726	-	-	-	4,184	10,142
Industrial.....	31,383	3,636	8,549	9,262	34	-	-	2,873	6,964
Transportation.....	20,426	-	612	19,778	-	-	-	11	25
Electric utilities.....	24,198	11,263	3,609	3,357	3,132	2,748	89	(X)	(X)
<b>1979</b>									
Final consuming sectors.....	76,201	3,486	16,687	31,208	33	-	-	7,146	17,674
Residential and commercial.....	27,294	166	7,637	4,385	-	-	-	4,354	10,763
Industrial.....	30,283	3,320	8,443	8,857	33	-	-	2,781	6,886
Transportation.....	18,628	-	606	17,987	-	-	-	11	25
Electric utilities.....	24,824	12,117	3,808	2,988	3,092	2,704	114	(X)	(X)
<b>1980</b>									
Final consuming sectors.....	76,201	3,486	16,687	31,208	33	-	-	7,146	17,674
Residential and commercial.....	27,294	166	7,637	4,385	-	-	-	4,354	10,763
Industrial.....	30,283	3,320	8,443	8,857	33	-	-	2,781	6,886
Transportation.....	18,628	-	606	17,987	-	-	-	11	25
Electric utilities.....	24,824	12,117	3,808	2,988	3,092	2,704	114	(X)	(X)

<sup>1</sup> Represents zero. X Not applicable. <sup>2</sup> Total may not equal sum of components due to independent rounding of the components. <sup>3</sup> Represents anthracite, bituminous, lignite, and net coke imports. <sup>4</sup> Includes petroleum products, still gas, liquefied refinery gas, and natural gas liquids. <sup>5</sup> Includes net imports of electricity. <sup>6</sup> Includes geothermal power and electricity produced from wood and waste. <sup>7</sup> Electrical energy used by railroads, and for street and highway lighting, is included in transportation sector. <sup>7</sup> Losses allocated by final end-use sector in proportion to their direct kilowatt-hour usage.

Source: U.S. Energy Information Administration, 1975-1979, *State Energy Data Report*, various issues; 1980, *Monthly Energy Review*, July 1981.

## Energy

No. 996. ENERGY CONSUMPTION—END-USE SECTOR AND SELECTED TYPE, BY STATE: 1979

(In billions of Btu. For Btu conversion factors, see text, p. 575)

STATE	Total <sup>1</sup>	END-USE SECTOR				TYPE				
		Residential	Commercial	Industrial	Transportation	Petroleum	Natural gas (dry)	Coal	Hydro-power	Nuclear power
U.S. <sup>2</sup>	78,961	15,411	11,741	31,383	20,426	37,122	20,661	15,109	3,168	2,748
Alabama	1,749	247	147	1,002	354	663	289	662	124	238
Alaska	283	30	32	137	84	129	161	5	5	-
Arizona	809	142	157	236	274	375	177	255	75	-
Arkansas	865	170	123	371	201	392	256	33	35	42
California	6,412	1,246	1,167	1,639	2,361	3,623	1,850	68	354	94
Colorado	895	189	182	253	271	361	298	239	17	2
Connecticut	782	234	142	212	194	583	69	1	5	137
Delaware	210	40	37	80	52	165	26	24	-	-
District of Columbia	155	41	43	42	29	60	30	3	-	-
Florida	2,463	544	429	564	926	1,740	353	203	3	166
Georgia	1,688	326	239	557	567	805	318	470	46	55
Hawaii	271	23	21	69	158	265	-	-	1	-
Idaho	379	76	66	135	99	145	55	16	96	-
Illinois	4,029	926	746	1,430	926	1,708	1,164	882	1	206
Indiana	2,604	458	279	1,396	471	896	513	1,170	5	-
Iowa	1,116	258	173	426	259	499	297	227	9	31
Kansas	1,145	194	167	494	290	441	597	148	(z)	-
Kentucky	1,412	257	177	635	342	513	223	611	-	-
Louisiana	3,317	283	372	2,083	580	1,214	2,020	3	-	-
Maine	355	85	35	140	94	263	2	1	63	48
Maryland	1,203	257	200	428	318	633	175	235	23	104
Massachusetts	1,286	372	287	242	384	1,041	159	4	5	65
Michigan	2,886	720	430	1,052	693	1,067	892	759	14	163
Minnesota	1,375	308	179	529	359	613	340	243	29	124
Mississippi	990	156	154	421	259	608	260	60	-	-
Missouri	1,528	405	303	373	447	679	354	518	11	-
Montana	389	64	54	178	91	185	71	65	108	-
Nebraska	582	127	102	198	155	258	173	81	13	93
Nevada	299	61	52	75	112	140	87	99	18	-
New Hampshire	194	61	22	45	66	144	9	29	13	-
New Jersey	2,072	442	395	684	551	1,401	266	59	(z) -3	71
New Mexico	466	66	77	151	172	215	216	159	1	-
New York	4,073	955	906	1,140	1,072	2,575	636	313	401	199
North Carolina	1,709	383	225	621	479	815	133	560	83	73
North Dakota	261	56	40	94	72	149	30	159	63	-
Ohio	4,242	835	521	2,072	814	1,437	914	1,662	(z)	34
Oklahoma	1,299	221	191	570	317	454	845	62	24	-
Oregon	928	199	169	290	270	391	95	6	312	48
Pennsylvania	4,205	884	475	1,999	847	1,686	754	1,720	13	202
Rhode Island	199	64	44	38	54	121	28	(z)	(z)	-
South Carolina	978	176	136	404	262	432	122	208	41	196
South Dakota	224	54	33	68	69	137	26	36	66	-
Tennessee	1,744	357	245	694	448	582	231	545	128	-
Texas	8,372	1,009	840	4,642	1,881	3,669	4,098	616	12	-
Utah	522	108	68	218	129	206	128	171	8	-
Vermont	124	43	17	27	37	75	4	(z)	11	37
Virginia	1,534	367	268	396	503	920	137	215	16	76
Washington	1,576	346	218	573	438	600	161	101	830	39
West Virginia	804	138	79	435	152	237	151	825	13	-
Wisconsin	1,461	371	242	495	353	613	374	328	24	112
Wyoming	423	37	35	264	87	199	95	283	11	-

<sup>1</sup> Represents zero. Z Less than 500 billion.<sup>1</sup> For type, includes geothermal, wood and waste, not shown separately.<sup>2</sup> For industrial sector, includes 68 trillion Btu of net imports of coke not allocated by State. <sup>3</sup> Minus sign (--) indicates amount of energy expended for pump storage hydropower exceeds amount of energy consumed.Source: U.S. Energy Information Administration, *State Energy Data Report*, annual.

**NO. 997. RESIDENTIAL ENERGY CONSUMPTION, EXPENDITURES, AND AVERAGE PRICES, BY REGION: 1979 AND 1980**

[For period April to March of year stated. Excludes Alaska and Hawaii. Covers year-round occupied units only. Based on Residential Energy Consumption Survey; see Appendix III. For composition of regions, see fig. 1, inside front cover. Excludes household usage of gasoline for transportation and the use of wood or coal. Blu=British thermal units; see text, p. 575]

ITEM	UNIT	1979					1980				
		All households	North-east	North Central	South	West	All households	North-east	North Central	South	West
<b>ENERGY CONSUMED</b>											
Total	Quad. Blu.	10.56	2.89	3.70	2.43	1.54	9.74	2.50	3.48	2.30	1.47
Avg. per household	Mil. Blu.	138	166	180	.98	110	126	145	168	92	100
Natural gas	Quad. Blu.	5.58	1.14	2.53	.96	.95	5.31	1.05	2.48	.91	.88
Electricity	Quad. Blu.	2.47	.39	.60	1.00	.48	2.42	.39	.59	.97	.47
Fuel oil, kerosene	Quad. Blu.	2.19	1.32	.46	.32	.09	1.71	1.03	.31	.28	.09
Liquid petroleum gas	Quad. Blu.	.327	.029	.118	.151	.029	.307	.029	.098	.143	.037
<b>EXPENDITURES</b>											
Total	Bil. dol.	55.5	15.4	16.9	16.6	6.6	63.2	17.8	19.1	18.5	7.7
Avg. per household	Dollars	724	887	821	674	469	815	1,033	924	744	527
Natural gas	Bil. dol.	15.3	3.9	6.5	2.7	2.2	17.8	4.3	7.8	3.1	2.6
Electricity	Bil. dol.	29.9	6.0	8.1	11.8	4.0	32.6	6.8	8.8	12.6	4.4
Fuel oil, kerosene	Bil. dol.	8.6	5.3	1.8	1.3	.3	10.7	6.5	2.0	1.8	.6
Liquid petroleum gas	Bil. dol.	1.67	.23	.54	.77	.12	2.06	.26	.60	.98	.22
<b>AVERAGE PRICE (per million Btu)</b>											
Total	Dollars	5.25	5.33	4.57	6.81	4.27	6.49	7.13	5.50	8.05	5.26
Natural gas	Dollars	2.74	3.42	2.57	2.85	2.28	3.36	4.15	3.15	3.44	2.93
Electricity	Dollars	12.10	15.32	13.84	11.76	8.29	13.46	17.22	14.82	13.05	9.40
Fuel oil, kerosene	Dollars	3.93	3.98	3.83	3.84	3.76	6.29	6.27	6.30	6.35	6.25
Liquid petroleum gas	Dollars	5.09	7.90	4.54	5.15	4.17	6.71	6.99	6.08	6.81	6.15

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: 1978-1979 Consumption and Expenditures* and *1979-1980*.

**NO. 998. RESIDENTIAL ENERGY CONSUMPTION AND EXPENDITURES, BY TYPE OF FUEL AND SELECTED HOUSEHOLD CHARACTERISTIC: 1980**

[For period April 1979 to March 1980. Quad.=quadrillion. See headnote, table 997]

CHARACTERISTIC	CONSUMPTION (Btu's)					EXPENDITURES				
	Total <sup>1</sup> (quad.)	Avg. per house- hold <sup>1</sup> (mil.)	Natu- ral gas (quad.)	Elec- tricity (quad.)	Fuel oil <sup>2</sup> (quad.)	Total <sup>1</sup> (bil. dol.)	Avg per house- hold <sup>1</sup> (dol.)	Nat- ural gas (bil. dol.)	Elec- tricity (bil. dol.)	Fuel oil <sup>2</sup> (bil. dol.)
<b>Total households</b>	9.74	126	5.31	2.42	1.71	63.2	815	17.8	32.6	10.7
Single family detached	6.92	138	3.74	1.80	1.17	44.9	896	12.2	23.9	7.3
Single family attached	.45	135	.90	.09	.05	2.8	795	1.0	1.3	.9
2-4 unit building	1.20	129	.80	.17	.21	7.1	764	2.9	2.7	1.4
5 or more unit building	.82	77	.38	.21	.22	5.8	548	1.5	2.9	1.4
Mobile home	.35	86	.09	.15	.05	2.6	649	.3	1.6	.9
Other	.02	125	.01	-	.01	.1	894	-	-	-
<b>Year house built:</b>										
1939 or earlier	3.76	148	2.12	.59	.96	22.5	885	7.3	8.7	6.0
1940-1949	.85	123	.50	.18	.14	5.4	773	1.7	2.6	.9
1950-1959	1.97	127	1.11	.44	.28	12.0	817	3.7	6.2	1.8
1960-1969	1.70	111	.89	.53	.23	11.7	766	2.9	6.9	1.5
1970-1974	.87	108	.41	.34	.06	6.3	781	1.3	4.3	.4
1975 or later	.69	98	.28	.34	.04	5.2	742	.9	3.9	.2
<b>Heating and cooling degree day zones:<sup>3</sup></b>										
Less than 2,000 CDD and—										
More than 7,000 HDD ..	.94	141	.52	.21	.19	5.6	841	1.7	2.6	1.2
5,500-7,000 HDD ..	3.35	158	2.15	.59	.55	19.3	908	7.2	8.3	3.4
4,000-5,499 HDD ..	2.82	139	1.37	.60	.78	18.5	915	4.8	8.3	4.9
Less than 4,000 HDD ..	1.62	92	.81	.58	.15	11.4	649	2.6	7.3	1.0
More than 2,000 CDD and less than 4,000 HDD ..	1.02	86	.48	.44	.05	8.4	709	1.5	6.1	.3
<b>1978 family income:</b>										
Less than \$5,000 ..	1.07	101	.64	.22	.16	6.4	609	2.2	2.9	1.1
\$5,000-\$9,999 ..	1.50	104	.85	.32	.27	9.4	657	2.9	4.5	1.7
\$10,000-\$14,999 ..	1.62	119	.87	.38	.30	10.3	759	2.9	5.0	1.9
\$15,000-\$19,999 ..	1.24	123	.66	.34	.21	8.2	814	2.2	4.4	1.3
\$20,000-\$24,999 ..	1.35	136	.69	.36	.27	9.1	922	2.4	4.8	1.7
\$25,000 and over ..	2.97	155	1.59	.81	.49	19.7	2.12	5.3	10.8	3.1

<sup>1</sup> Represents zero or rounds to zero.

<sup>2</sup> Includes liquid petroleum gas, not shown separately.

<sup>3</sup> Includes kerosene.

<sup>3</sup> CDD=Cooling day; HDD=Heating degree day. See fig. 7.2, p. 219.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: 1979-1980 Consumption and Expenditures*.

## NO. 999 RESIDENTIAL ENERGY CONSERVATION ACTIVITIES: 1978 AND 1979

[For period April 1979 to March 1980. See headnote, table 997. Excludes buildings of 5 or more units]

REGION AND MAIN HEATING FUEL OF HOUSEHOLD	ATTIC INSULATION ADDED			STORM WINDOWS AND DOORS ADDED			WALL INSULATION ADDED		
	Households (mil.)		Avg. cost per household, 1979 (dol.)	Households (mil.)		Avg. cost per household, 1979 (dol.)	Households (mil.)		Avg. cost per household, 1979 (dol.)
	1978	1979		1978	1979		1978	1979	
Total households <sup>1</sup>	4.4	3.4	394	3.7	3.9	382	2.0	1.8	886
Northeast	1.0	.6	492	.8	.9	524	.3	.5	807
North Central	1.6	1.3	412	1.3	1.1	332	.8	.6	1,097
South	1.4	1.0	295	1.4	1.4	379	.6	.4	891
West	.5	.6	425	.3	.4	225	.3	.2	468
Natural gas	2.5	1.7	465	2.0	2.2	318	1.2	.9	631
Fuel oil and kerosene	1.0	.9	341	.9	.7	440	.3	.4	1,599
Electricity	.3	.5	299	.5	.5	685	.3	.2	705
Liquified petroleum gas (LPG)	-	.2	352	.2	.2	294	.1	.1	234
Wood	.5	.2	313	.2	.2	160	.1	.1	503
Coal	-	-	200	-	.1	500	-	.1	3,000

<sup>1</sup> Represents zero or rounds to zero.<sup>2</sup> Includes households with main heating fuel reported as other and none, not shown separately.Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: 1979-1980 Consumption and Expenditures*.

## NO. 1000. PRIMARY ENERGY CONSUMPTION BY CONSUMING SECTOR: 1970 TO 1980

[For definition of Blu, text, p. 575]

SECTOR	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980, est.
Total consumption (quad. Btu)	66.8	68.3	71.6	74.6	72.8	70.7	74.5	76.4	78.2	79.0	76.3
Residential and commercial	14.4	14.6	15.0	14.7	14.0	13.6	14.4	13.9	14.1	12.8	12.2
Industrial and miscellaneous	20.1	19.8	20.5	21.4	20.6	18.5	19.5	19.9	19.9	21.5	20.6
Transportation	18.0	18.6	17.6	18.5	18.0	18.1	19.0	19.7	20.6	20.4	19.6
Electricity generation	16.3	17.2	16.6	20.2	20.2	20.4	21.6	22.8	23.5	24.2	24.8
Percent of total:											
Residential and commercial	21.6	21.4	20.9	19.7	19.2	19.2	19.3	18.2	18.0	16.2	16.0
Industrial and miscellaneous	30.1	29.0	28.6	28.7	28.3	26.2	26.2	26.0	25.4	27.2	27.0
Transportation	24.0	24.3	24.6	24.8	24.7	25.6	25.5	25.8	26.3	25.8	24.4
Electricity generation	24.4	25.2	26.0	26.8	27.7	28.9	29.0	29.8	30.1	30.6	32.5

## NO. 1001. FOSSIL FUEL PRICES IN CURRENT AND CONSTANT (1972) DOLLARS: 1960 TO 1980

[In cents per million British thermal units (Btu), except as indicated. All fuel prices taken as close to the point of production as possible. See text, p. 575, for explanation of Blu conversions from mineral fuels. Minus sign (-) denotes decrease]

YEAR OR PERIOD	CURRENT DOLLARS					CONSTANT (1972) DOLLARS					GNP <sup>a</sup> price deflators (1972=100)
	Composite <sup>1</sup>	Crude oil	Natural gas	Bituminous coal <sup>2</sup>	Anthracite coal	Composite <sup>1</sup>	Crude oil	Natural gas	Bituminous coal <sup>2</sup>	Anthracite coal	
1960	28.7	49.7	12.6	18.3	33.0	41.8	72.3	18.3	26.6	48.0	68.7
1965	28.0	49.3	14.2	17.5	35.3	37.7	66.3	19.1	23.5	47.5	74.4
1970	32.3	54.8	15.5	25.5	47.1	35.3	59.9	16.9	27.8	51.5	91.5
1971	34.7	58.4	16.5	29.2	51.4	36.1	60.8	17.2	30.4	53.5	96.0
1972	35.5	58.4	16.9	31.9	52.9	35.5	58.4	16.9	31.9	52.9	100.0
1973	40.3	67.1	19.8	35.5	58.9	38.1	63.5	18.7	33.6	55.7	105.7
1974	69.2	118.4	27.7	66.4	98.4	60.2	103.0	24.1	57.8	85.6	114.9
1975	83.9	132.2	40.6	82.9	137.9	66.8	105.3	32.3	66.0	108.8	125.6
1976	91.5	141.2	53.1	83.9	149.0	69.3	106.9	40.2	63.5	112.8	132.1
1977	101.9	147.8	72.9	87.3	150.4	72.9	105.7	51.7	62.4	107.6	139.8
1978	112.3	155.2	83.2	97.1	149.9	74.8	103.4	55.4	64.7	99.9	150.1
1979	142.5	217.9	107.9	104.0	161.1	87.5	133.9	56.3	63.9	99.0	162.8
1980, prel.	203.1	365.5	136.5	115.1	173.8	114.5	206.0	76.9	64.9	98.0	177.4
Percent change:											
1960-70	12.5	10.3	23.0	39.3	42.7	-15.6	-17.2	-7.7	4.9	7.3	33.2
1970-73	24.8	22.4	27.7	39.2	25.1	7.9	6.0	10.7	20.4	8.2	15.5
1973-75	108.2	97.0	105.1	133.5	134.1	75.3	65.8	72.7	98.4	97.1	18.8
1975-78	33.8	17.4	104.9	17.1	8.7	12.0	-1.8	71.5	-2.0	-9.0	19.5
1978-79	26.9	40.4	28.7	7.1	7.5	17.0	29.5	19.7	-1.2	-9.9	8.5
1979-80, prel.	42.5	67.7	26.5	106.7	7.9	30.9	53.8	16.0	1.6	-1.0	8.0

<sup>1</sup> Weighted by relative importance of individual fuels in total mineral fuels production. <sup>2</sup> Includes lignite.Source of tables 1000 and 1001: U.S. Energy Information Administration, *Annual Report to Congress*, vol. II.<sup>a</sup> GNP=Gross

# Energy Consumption

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## NO. 1002. WORLD ENERGY CONSUMPTION, BY REGION AND ENERGY SOURCE: 1960 TO 1979

[In tons of coal equivalent. Metric ton=1.1023 short tons. See text, p. 864, for general comments about the data]

REGION AND ENERGY SOURCE	CONSUMPTION (mil. metric tons)								PERCENT DISTRIBUTION			
	1960	1965	1970	1974	1975	1976	1977	1978	1979	1960	1970	1979
World total.....	4,019	4,992	6,512	7,471	7,529	7,930	8,168	8,395	8,706	100.0	100.0	100.0
United States.....	1,447	1,745	2,204	2,346	2,284	2,395	2,435	2,452	2,508	36.0	35.0	28.8
Western Europe.....	787	1,000	1,303	1,450	1,413	1,500	1,492	1,526	1,576	19.6	20.0	18.1
Japan.....	96	167	315	371	354	376	383	381	431	2.4	3.3	5.0
Centrally planned economies <sup>1</sup> .....	1,254	1,470	1,824	2,222	2,347	2,458	2,597	2,725	2,819	31.2	29.4	32.4
Rest of world.....	435	610	866	1,082	1,131	1,201	1,261	1,311	1,374	10.8	12.2	15.8
Energy source:												
Solid fuels.....	2,049	2,114	2,272	2,343	2,397	2,476	2,560	2,612	2,738	51.0	42.3	31.5
Liquid fuels.....	1,293	1,883	2,792	3,362	3,348	3,578	3,692	3,768	3,834	32.2	37.7	44.0
Natural gas.....	593	882	1,293	1,557	1,561	1,645	1,666	1,738	1,846	14.8	17.7	21.2
Electricity.....	85	116	155	209	223	231	250	277	288	2.1	2.3	3.3

<sup>1</sup>Includes China, Dem. People's Rep. of Korea, Mongolia, Vietnam, Albania, Bulgaria, Czechoslovakia, German Dem. Rep., Hungary, Poland, Romania, and Soviet Union.

Source: Statistical Office of the United Nations, New York, N.Y., *World Energy Supplies*, Statistical Papers, series J, vol. 21; and unpublished data. (Copyright.)

## NO. 1003. WORLD ENERGY CONSUMPTION, GROWTH RATE, ENERGY/GROSS DOMESTIC PRODUCT (GDP) RATIOS, AND FUEL SHARES: 1960 TO 1978

[Minus sign (–) denotes decrease]

REGION OR COUNTRY	ENERGY CONSUMPTION						ENERGY GROWTH RATE (percent)		ENERGY/GDP RATIOS (1,000 Btu per constant 1975 U.S. dollars)		
	1960 (quad. Btu)	1973 (quad. Btu)	1978						1960–1973	1973–1978	1980
			Total (quad. Btu)	Fuel shares <sup>1</sup> (percent)	Coal	Oil	Natural gas				
Total free world.....	90.9	180.3	191.6	18	55	18	5.4	1.2	37.4	36.6	33.6
OECD countries.....	80.4	155.4	160.9	18	53	19	5.2	.7	37.6	38.4	35.2
United States <sup>2</sup> .....	44.2	75.1	78.8	18	49	25	4.2	1.0	47.4	48.1	44.3
Canada.....	3.9	8.1	9.0	6	42	22	5.7	2.1	50.5	51.8	49.3
Japan.....	3.9	15.3	14.9	13	73	5	11.0	–.5	28.6	30.8	25.7
Australia and New Zealand.....	1.4	2.9	3.5	40	42	10	5.5	3.8	25.8	28.3	30.4
Western Europe.....	26.9	54.0	54.7	18	56	14	5.5	.3	28.6	31.2	28.5
Austria and Switzerland.....	.9	2.0	2.1	5	53	11	6.5	1.0	17.1	21.2	21.5
Belgium, the Netherlands, and Luxembourg <sup>3</sup> .....	2.7	7.3	6.4	10	57	30	7.8	–2.6	28.1	40.5	31.7
Finland, Norway, and Sweden.....	1.8	3.9	4.1	5	50	2	6.4	1.0	26.6	33.2	31.5
France.....	3.7	8.2	8.2	15	61	11	6.3	–	22.9	25.1	21.8
Germany, F.R.....	6.2	11.5	12.0	26	54	16	4.9	.9	25.8	28.9	25.4
Greece and Turkey.....	.4	1.4	1.9	30	64	–	10.8	6.3	17.9	27.5	26.6
Italy.....	2.2	6.2	5.2	6	69	17	8.4	–	24.1	35.4	32.0
Spain and Portugal.....	1.0	3.0	3.6	15	67	2	8.5	3.7	22.5	26.7	28.3
United Kingdom and Ireland.....	8.0	10.4	10.1	34	44	17	2.1	–.6	49.0	42.6	39.6
OPEC <sup>4</sup> .....	1.7	5.0	6.2	–	71	24	8.6	4.4	27.9	23.7	22.1
Other countries.....	8.8	20.0	24.5	24	65	7	5.4	1.2	37.4	36.6	33.6

<sup>1</sup> Represents zero. <sup>2</sup> Hydroelectric power, geothermal, and nuclear are not shown separately, but constitute the residual category collectively. <sup>3</sup> Includes Puerto Rico and Virgin Islands. <sup>4</sup> Benelux countries consist of Belgium, the Netherlands, and Luxembourg. <sup>5</sup> See table 1005 for countries in OPEC.

Source: U.S. Energy Information Administration, *1980 Annual Report to Congress*, vol. III.

## NO. 1004. U.S. FOREIGN TRADE IN SELECTED MINERAL FUELS: 1960 TO 1980

[Btu=British thermal units. See text, p. 575. Minus sign (-) denotes an excess of imports over exports. See also *Historical Statistics, Colonial Times to 1970*, series M 100, 101, 127, 128, 140, 141, 178, and 181]

YEAR	NATURAL GAS						CRUDE OIL					
	Imports		Exports		Net trade		Imports		Exports		Net trade	
	Bil. cu. ft.	Tril. Btu	Bil. cu. ft.	Tril. Btu	Bil. cu. ft.	Tril. Btu	Mil. bbl.	Tril. Btu	Mil. bbl.	Tril. Btu	Mil. bbl.	Tril. Btu
1960.....	155.6	161	11.3	12	-144.3	-149	372	2,196	3	18	-369	-2,178
1965.....	456.4	471	26.1	27	-430.3	-444	452	2,654	1	6	-451	-2,646
1970.....	820.8	846	69.8	72	-751.0	-774	483	2,814	5	29	-478	-2,785
1971.....	934.5	964	80.2	83	-854.3	-881	613	3,573	1	3	-612	-3,570
1972.....	1,019.5	1,047	78.0	80	-941.5	-967	811	4,712	(2)	1	-811	-4,710
1973.....	1,032.9	1,060	77.2	78	-955.7	-981	1,184	6,887	1	4	-1,183	-6,883
1974.....	959.3	985	76.8	78	-882.5	-907	1,269	7,395	1	6	-1,268	-7,389
1975.....	953.0	978	72.7	74	-880.3	-904	1,498	8,721	2	12	-1,496	-8,709
1976.....	963.8	988	64.7	66	-899.1	-922	1,935	11,239	3	17	-1,932	-11,221
1977.....	1,011.0	1,037	55.6	56	-955.4	-981	1,214	14,027	18	106	-2,396	-13,921
1978.....	955.5	985	52.5	53	-913.0	-941	1,230	13,460	58	335	-2,262	-13,125
1979.....	1,253.4	1,300	55.7	56	-1,197.7	-1,244	2,380	13,625	86	497	-2,294	-13,328
1980.....	994.0	1,031	56.0	56	-939.0	-975	1,911	11,102	104	602	-1,799	-10,500
COAL												
YEAR	COAL						PETROLEUM PRODUCTS					
	Imports		Exports <sup>2</sup>		Net trade		Imports		Exports		Net trade	
	1,000 sh. tons	Tril. Btu	1,000 sh. tons	Tril. Btu	1,000 sh. tons	Tril. Blu	Mil. bbl.	Tril. Blu	Mil. bbl.	Tril. Btu	Mil. bbl.	Tril. Btu
1960.....	262	7	37,981	1,023	37,719	1,017	293	1,802	71	413	-222	-1,389
1965.....	184	5	52,165	1,376	51,981	1,372	449	2,748	67	386	-382	-2,366
1970.....	36	1	72,419	1,935	72,383	1,935	765	4,656	89	520	-576	-4,136
1971.....	111	3	58,022	1,546	57,911	1,543	819	4,988	81	470	-738	-4,498
1972.....	47	1	57,188	1,530	57,141	1,530	924	5,587	81	467	-843	-5,120
1973.....	127	3	54,030	1,456	53,903	1,453	1,099	6,578	84	482	-1,015	-6,096
1974.....	2,080	52	61,095	1,637	59,015	1,585	962	5,731	79	458	-883	-5,273
1975.....	940	24	66,765	1,789	65,825	1,766	712	4,227	74	427	-638	-3,800
1976.....	1,203	30	60,594	1,620	59,391	1,590	741	4,434	79	452	-662	-3,982
1977.....	1,647	41	54,713	1,465	53,066	1,424	800	4,728	70	408	-730	-4,320
1978.....	2,953	74	40,967	1,097	38,014	1,023	733	4,364	74	432	-659	-3,932
1979.....	2,059	51	66,381	1,780	64,322	1,729	707	4,108	86	505	-621	-3,603
1980.....	1,194	30	92,082	2,474	90,888	2,444	582	3,381	94	554	-488	-2,827

Z Less than 500,000. <sup>1</sup> Includes strategic petroleum reserve imports. <sup>2</sup> Includes shipments to U.S. Armed Forces.

Source: U.S. Energy Information Administration, *Annual Report to Congress*, vol. II.

## NO. 1005. CRUDE OIL IMPORTS INTO U.S., BY COUNTRY OF ORIGIN: 1970 TO 1980

COUNTRY	IMPORTS (mil. 42-gal. bbls.)										PERCENT DISTRIBUTION		
	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1970	1975	1980
Total.....	483	811	1,184	1,269	1,498	1,935	2,414	2,320	2,380	1,911	100.0	100.0	100.0
Canada.....	245	312	365	289	219	136	102	90	99	73	50.7	14.6	3.8
Mexico.....	-	-	(2)	1	26	32	65	115	160	184	-	1.7	9.6
Norway.....	-	-	-	(z)	5	13	18	38	28	52	-	.3	2.7
Trinidad-Tobago.....	(z)	9	22	23	42	38	49	52	45	42	(2)	2.8	2.2
United Kingdom.....	-	-	-	-	-	5	36	62	72	64	-	-	3.3
OPEC.....	222	475	767	928	1,171	1,663	2,058	1,892	1,866	1,403	46.0	78.2	73.5
Algeria.....	2	32	44	66	96	149	198	231	222	165	.4	6.4	8.6
Ecuador.....	-	5	17	15	21	19	20	14	11	6	-	1.4	.3
Gabon.....	-	-	9	10	10	13	14	15	9	-	.6	.5	
Indonesia.....	26	60	73	103	138	196	185	195	139	112	5.4	9.2	5.9
Iran.....	12	50	79	169	102	109	193	202	108	3	2.5	6.8	.2
Iraq.....	-	1	2	-	(2)	10	27	23	32	10	-	(2)	.5
Kuwait.....	12	13	15	2	1	15	2	2	2	7	2.5	.1	.4
Libya.....	17	40	49	1	81	162	257	233	234	200	3.5	5.4	10.5
Nigeria.....	17	89	164	254	272	371	412	332	390	304	3.5	18.2	15.9
Qatar.....	-	1	3	6	7	9	24	23	11	8	-	.5	.4
Saudi Arabia.....	15	64	169	160	256	447	501	417	492	456	3.1	17.1	23.9
Un. Arab Emirates <sup>1</sup> .....	23	27	26	25	43	93	122	141	103	66	4.8	2.9	3.5
Venezuela.....	98	93	126	116	144	88	91	66	107	56	20.3	9.6	2.9
Other.....	16	15	30	30	35	48	86	71	110	93	3.3	2.3	4.9

- Represents zero. Z Less than 500,000 or less than .05 percent. <sup>1</sup> Abu Dhabi prior to 1972.

Source: 1970-1976, U.S. Bureau of Mines, *Minerals Yearbook and Mineral Industry Surveys*; thereafter, U.S. Energy Information Administration, *Energy Data Report, Petroleum Statement*, annual.

# Crude Oil—Energy Producing Companies

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## NO. 1006. CRUDE OIL AND REFINED PRODUCTS SUMMARY: 1973 TO 1981

[Barrels of 42 gallons]

YEAR AND MONTH	CRUDE OIL (1,000 bbl. per day)				REFINED OIL PRODUCTS (1,000 bbl. per day)			Total oil imports <sup>a</sup> (1,000 bbl. per day)	CRUDE OIL STOCKS <sup>b</sup> (mil. bbl.)		
	Input to refineries	Do- mestic pro- duction	Imports		Ex- ports	Do- mestic de- mand	Im- ports	Ex- ports			
			Total <sup>c</sup>	Strategic re- serve							
1973, avg.....	12,431	9,208	3,244	(X)	2	17,308	3,012	229	6,256	242	(X)
1974, avg.....	12,133	8,774	3,477	(X)	3	18,653	2,635	218	5,112	265	(X)
1975, avg.....	12,442	8,375	4,105	(X)	6	16,322	1,951	204	5,056	271	(X)
1976, avg.....	13,416	8,132	5,287	(X)	8	17,461	2,028	215	7,313	285	(X)
1977, avg.....	14,602	8,245	6,594	80	50	18,431	2,193	193	8,807	340	(X)
1978, avg.....	14,739	8,707	6,195	161	158	18,847	2,008	204	8,363	309	67
1979, avg.....	14,648	8,552	6,452	67	235	18,513	1,937	236	8,456	339	91
1st qtr.....	14,477	8,534	6,442	165	278	20,369	2,231	219	8,841	317	83
2d qtr.....	14,607	8,529	6,298	76	221	17,675	1,732	242	8,104	326	89
3d qtr.....	14,890	8,478	6,589	26	222	17,566	1,780	234	8,394	324	91
4th qtr.....	14,648	8,664	6,481	-	219	18,472	2,008	249	8,480	339	91
1980, avg.....	13,483	8,597	5,177	44	284	17,006	1,611	258	6,831	358	108
1st qtr.....	14,063	8,685	6,029	-	315	16,274	1,872	233	7,901	362	91
2d qtr.....	13,502	8,625	5,366	-	296	16,358	1,440	265	6,806	382	91
3d qtr.....	13,190	8,531	4,674	18	211	16,074	1,418	256	6,110	376	93
4th qtr.....	13,182	8,548	4,649	154	314	17,327	1,714	276	6,520	358	108
1981:											
1st qtr.....	12,827	8,578	4,617	109	251	16,826	1,677	300	6,402	396	121
2d qtr.....	12,289	8,543	3,893	328	212	15,484	1,301	302	5,521	386	163

— Represents zero. X Not applicable. <sup>1</sup> Excludes Strategic Petroleum Reserve. <sup>2</sup> Crude oil (including Strategic Petroleum imports) plus refined products. <sup>3</sup> End of year or quarter.

Source: U.S. Energy Information Administration, 1973-1978, *Monthly Energy Review*; thereafter, *Quarterly Report—Report to Congress, Fourth Quarter 1980 and Second Quarter 1981*.

## NO. 1007. ENERGY PRODUCING COMPANIES—SELECTED FINANCIAL AND INVESTMENT INDICATORS, 1975 TO 1979, AND BY LINE-OF-BUSINESS, 1979

[Based on data from 26 major publicly-owned domestic crude oil producing companies which either had at least one percent of domestic production or reserves of oil, natural gas, coal, or uranium, or at least one percent of refining capacity or petroleum product sales]

ITEM	1975	1976	1977	1978	Total <sup>1</sup>	1979, pres.				
						Petro- leum	Coal	Nuclear	Other ener- gy	Non- ener- gy
<b>INCOME STATEMENT (bil. dol.)</b>										
Operating revenues .....	206.1	233.8	268.7	294.8	392.6	347.0	3.1	.2	1.2	55.7
Operating expenses .....	177.8	205.0	238.6	265.0	345.8	301.6	2.9	.1	1.6	52.0
Operating income .....	28.3	28.8	28.1	29.8	46.8	45.4	.2	-.1	-.2	3.7
Pretax income .....	29.9	30.3	28.2	29.9	48.5	48.3	.2	-.2	-.2	4.1
Funds from operations .....	19.0	22.8	25.9	29.5	42.1	38.2	.5	.2	.1	5.2
<b>BALANCE SHEET (bil. dol.)</b>										
Net property, plant, and equipment.....	94.6	108.1	125.6	138.1	159.3	122.1	3.7	1.1	2.4	28.5
Net investment in place <sup>3</sup> .....	103.0	117.1	134.8	148.1	169.9	128.1	4.1	1.1	2.4	31.8
Total assets .....	171.0	193.7	216.6	236.9	282.5	(NA)	(NA)	(NA)	(NA)	(NA)
<b>RATIOS (percent)</b>										
Net income to operating revenues .....	5.0	5.2	4.7	4.7	6.0	6.6	8.1	2	9.6	5.0
Net income to total assets .....	6.0	6.2	5.8	5.9	8.3	(NA)	(NA)	(NA)	(NA)	(NA)
Net income to stockholders' equity.....	12.2	13.0	12.6	12.8	18.8	(NA)	(NA)	(NA)	(NA)	(NA)
Long-term debt to stockholders' equity <sup>4</sup> .....	33.1	36.2	38.6	35.6	33.7	(NA)	(NA)	(NA)	(NA)	(NA)
Long-term debt to total assets <sup>4</sup> .....	16.4	17.3	17.9	16.3	14.9	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Includes items which cannot be allocated and adjustment for duplication, not shown separately. <sup>2</sup> Combined to avoid disclosure. <sup>3</sup> Composed of net property, plant and equipment plus investment and advances to unconsolidated subsidiaries. <sup>4</sup> Long-term debt includes amounts applicable to capitalized leases.

Source: U.S. Energy Information Administration, *Performance Profiles of Major Energy Producers, 1978*, and unpublished data. Prior to 1977, from *Standard and Poor's Compustat Services, Inc.*

## Energy

## NO. 1008. PETROLEUM AND COAL PRODUCTS—SALES, NET PROFIT, AND PROFIT PER DOLLAR OF SALES: 1965 TO 1980

[Profit rates are averages of quarterly figures at annual rates]

ITEM	Unit	1965	1970	1973	1974 <sup>1</sup>	1974 <sup>2</sup>	1975 <sup>2</sup>	1976 <sup>2</sup>	1977 <sup>2</sup>	1978 <sup>2</sup>	1979 <sup>2</sup>	1980 <sup>2</sup>
Sales.....	Bil. dol....	41.4	64.1	97.8	180.4	113.5	121.8	141.3	162.3	180.3	242.7	333.2
Net profit:												
Before taxes <sup>3</sup> .....	Bil. dol....	5.3	7.0	9.5	15.6	17.7	13.3	16.9	17.8	19.2	32.2	39.1
After taxes.....	Bil. dol....	4.5	5.9	7.4	12.3	14.5	9.3	11.7	12.2	12.8	21.8	25.5
Depreciation <sup>4</sup> .....	Bil. dol....	2.9	4.5	5.7	(NA)	5.1	5.6	5.9	6.6	7.7	9.5	11.6
Profits per dollar of sales:												
Before taxes <sup>3</sup> .....	Cents....	12.7	11.0	9.8	8.6	15.6	10.9	12.0	11.0	10.6	13.3	11.8
After taxes.....	Cents....	10.9	9.2	7.6	6.8	12.8	7.6	8.3	7.5	7.1	9.0	7.7
Profits on stockholders' equity:												
Before taxes <sup>3</sup> .....	Percent....	13.9	13.0	14.9	(NA)	25.8	17.9	20.3	19.9	19.8	30.0	30.7
After taxes.....	Percent....	11.8	11.0	11.6	(NA)	21.1	12.5	14.1	13.6	13.3	20.4	20.0

NA Not available. <sup>1</sup> Estimates based on FTC reporting requirements in use prior to 1974. <sup>2</sup> Beginning 1974, based on new FTC reporting requirements. <sup>3</sup> Federal income taxes. <sup>4</sup> Includes depletion and accelerated amortization of emergency facilities.

Source: U.S. Federal Trade Commission, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*.

## NO. 1009. MAJOR PETROLEUM COMPANIES—FINANCIAL DATA SUMMARY: 1970 TO 1980

[Data represent a composite of approximately 41 major worldwide petroleum companies aggregated on a consolidated, total company basis]

ITEM	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980
<b>FINANCIAL DATA (bil. dol.)</b>										
Net income .....	6.9	6.8	11.8	15.9	11.6	14.3	15.1	16.0	32.8	36.1
Depreciation, depletion, etc.....	7.4	9.1	10.5	13.0	11.3	14.8	18.3	19.8	24.9	30.9
Cash flow <sup>1</sup> .....	14.2	15.9	22.3	28.9	22.8	29.1	33.4	35.8	57.7	67.0
Dividends paid.....	3.8	3.8	4.0	4.5	4.7	5.4	6.3	6.8	8.0	9.4
Net internal funds available for investment or debt repayment <sup>2</sup> .....	10.5	12.1	18.3	24.5	18.1	23.7	27.1	29.0	49.7	57.6
Capital and exploratory expenditures.....	13.3	14.3	16.3	25.8	26.9	30.7	31.8	37.1	51.1	64.5
Long-term capitalization.....	84.5	93.7	102.9	112.9	121.1	142.9	150.1	168.0	198.9	227.0
Long-term debt .....	18.5	21.8	22.5	25.0	28.9	39.1	38.4	45.1	48.1	52.7
Preferred stock .....	1.3	4	4	4	4	3	.9	.9	.9	.9
Common stock and retained earnings <sup>3</sup> .....	64.6	71.5	80.0	87.4	91.9	103.5	110.8	122.0	147.9	173.4
Excess of expenditures over cash income <sup>4</sup> .....	2.8	2.2	-2.0	1.3	8.9	6.9	4.7	8.1	1.4	6.9
<b>RATIOS<sup>5</sup> (percent)</b>										
Long-term debt to long-term capitalization .....	21.9	23.3	22.0	22.2	23.8	27.4	25.6	26.8	24.4	23.2
Net income to total average capital.....	8.3	7.4	12.0	14.8	10.0	10.7	10.1	9.9	17.8	17.0
Net income to avg. common equity.....	10.7	9.7	15.6	19.0	13.1	14.3	13.9	13.5	24.0	22.5

<sup>1</sup> Generally represents internally-generated funds from operations. Sum of net income and noncash charges such as depreciation, depletion, and amortization. <sup>2</sup> Cash flow minus dividends paid. <sup>3</sup> Includes common stock, capital surplus, and earned surplus accounts after adjustments. <sup>4</sup> Capital and exploratory expenditures plus dividends paid minus cash flow.

<sup>5</sup> Represent approximate year-to-year comparisons because of changes in the makeup of the group due to mergers and other corporate changes.

Source: Carl H. Pforzheimer & Co., New York, N.Y., *Comparative Oil Company Statements, 1979-1980*.

## NO. 1010. ELECTRIC UTILITY ENERGY USE, 1960 TO 1980, AND PROJECTED REQUIREMENTS, 1981 TO 1990

[Excludes industrial facilities and railways having own generating facilities. For explanation of average annual percent change, see Guide to Tabular Presentation]

ITEM	1960	1965	1970	1975	1979	1980 <sup>1</sup>	1981	1985	1989	1990
Energy use (bil. kWh).....	753	1,055	1,532	1,918	2,247	2,286	2,400	2,815	3,230	(NA)
Annual percent change <sup>2</sup> .....	6.7	7.0	7.7	4.6	4.0	1.7	5.0	4.1	3.5	(NA)
Per capita <sup>3</sup> kWh (1,000) .....	4.2	5.5	7.5	9.0	10.2	10.3	(NA)	(NA)	(NA)	(NA)
Peak load (mil. kW).....	138	189	276	345	402	430	442	511	585	603
Annual percent change <sup>2</sup> .....	7.1	6.5	7.9	4.6	3.9	7.0	3.0	3.7	3.4	3.1

<sup>1</sup> NA Not available. <sup>2</sup> Preliminary. <sup>3</sup> Average annual change from prior year shown; for 1960, change from 1955. Figures used are for series II (see table 30, p. 27) based on 1976 estimates of the population.

Source: 1960-1975, U.S. Federal Power Commission, unpublished data; thereafter, U.S. Energy Information Administration, *Power Production, Fuel Consumption, and Installed Capacity Data—Annual*, and *Monthly Electric Energy and Peak Load Data*—December.

# Electric Energy

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## NO. 1011. ELECTRIC ENERGY PRODUCTION AND INSTALLED GENERATING CAPACITY, BY TYPE OF PRIME MOVER AND CONSUMPTION OF FUELS: 1960 TO 1980

[Production for calendar years; other data as of December 31. 1960 excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series S 32-52, S 78-82, and S 86-107]

ITEM	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980
PRODUCTION										
Total	Bil. kWh	842	1,158	1,640	2,003	2,125	2,212	2,285	2,319	(NA)
Average annual change <sup>1</sup>	Percent	6.0	6.6	7.2	4.1	6.1	4.1	3.3	1.5	(NA)
Production, kWh per kW of capacity	Number	4,529	4,548	4,545	3,798	3,863	3,818	3,818	3,765	(NA)
Industrial plants <sup>2</sup>	Bil. kWh	88	102	108	85	87	88	79	71	(NA)
Electric utilities <sup>3</sup>	Bil. kWh	763	1,055	1,532	1,918	2,038	2,124	2,206	2,247	2,286
Privately owned	Bil. kWh	579	809	1,183	1,497	1,582	1,684	1,721	1,756	1,783
Publicly owned	Percent	76.8	76.7	77.2	77.5	77.6	79.3	78.0	78.1	78.0
Municipal	Bil. kWh	175	246	349	431	456	440	485	491	503
Federal	Bil. kWh	37	50	71	82	78	83	90	87	87
Cooperatives and other	Bil. kWh	112	145	186	221	236	214	235	236	235
Source of energy:										
Coal <sup>4</sup>	Percent	53.5	54.1	46.2	44.7	46.5	46.6	44.4	48.1	51.1
Nuclear	Percent	.1	.4	1.4	9.0	9.4	11.8	12.5	11.4	11.0
Oil	Percent	6.1	6.1	11.9	15.1	15.7	16.8	16.5	13.5	10.7
Gas	Percent	21.0	21.0	24.3	16.6	14.5	14.4	13.8	14.7	15.1
Hydro	Percent	19.3	18.4	16.2	15.6	13.9	10.4	12.7	12.4	12.1
INSTALLED CAPACITY										
Total	Mil. kW	186	255	361	527	550	579	598	618	631
Average annual change <sup>1</sup>	Percent	7.3	6.5	7.2	7.9	4.6	5.3	3.3	2.9	2.4
Industrial plants <sup>2</sup>	Mil. kW	18	18	19	19	19	19	19	17	17
Electric utilities <sup>3</sup>	Mil. kW	168	236	342	508	531	560	579	598	614
Privately owned	Mil. kW	128	178	263	399	415	438	454	464	477
Publicly owned	Percent	76.5	75.2	76.9	78.5	78.2	78.2	78.3	77.6	77.7
Municipal	Mil. kW	40	59	79	109	116	122	126	134	137
Federal	Mil. kW	11	15	21	29	31	33	34	34	35
Cooperatives and other	Mil. kW	22	32	39	50	52	53	54	58	59
Internal combustion	Mil. kW	6	11	19	30	33	36	37	42	43
ELECTRIC UTILITIES <sup>3</sup>										
TYPE OF PRIME MOVER										
Prime movers, total <sup>5</sup>	Number	3,435	3,290	3,533	3,587	3,576	3,587	3,586	3,573	3,575
Hydro	Number	1,331	1,231	1,188	1,146	1,140	1,145	1,146	1,145	1,142
Steam conventional	Number			998	937	927	926	922	925	934
Gas turbine	Number	1,055	1,059	323	497	510	520	529	537	541
Steam nuclear	Number	5	9	16	42	45	49	50	51	51
Internal combustion	Number	1,044	991	1,008	965	954	947	938	915	907
Production	Bil. kWh	753	1,055	1,532	1,918	2,038	2,124	2,206	2,247	2,286
Hydro	Bil. kWh	146	194	248	300	284	220	280	280	276
Steam conventional	Bil. kWh			1,241	1,417	1,534	1,619	1,613	1,680	1,731
Gas turbine	Bil. kWh	602	852	16	22	24	29	31	28	24
Steam nuclear	Bil. kWh	1	4	22	173	191	251	276	255	251
Internal combustion	Bil. kWh	4	5	6	6	5	5	5	4	4
Installed capacity	Mil. kW	168	236	342	508	531	560	579	598	614
Hydro	Mil. kW	32	44	55	66	68	69	71	75	76
Steam conventional	Mil. kW			260	353	368	388	400	412	425
Gas turbine	Mil. kW	139	188	15	44	47	48	49	51	51
Steam nuclear	Mil. kW	(2)	1	6	40	43	50	54	55	56
Internal combustion	Mil. kW	3	3	4	5	5	5	6	5	6
ELECTRIC UTILITIES <sup>3</sup>										
CONSUMPTION OF FUELS										
Net generation by fuel <sup>6</sup>	Bil. kWh	607	881	1,284	1,618	1,754	1,904	1,926	1,968	2,010
Average annual change <sup>1</sup>	Percent	6.9	7.2	7.6	4.7	8.5	8.5	1.2	2.2	2.1
Coal <sup>7</sup>	Bil. kWh	403	571	706	853	945	985	977	1,076	1,162
Percent of total	Percent	66.4	66.3	54.3	52.7	53.8	51.7	50.7	54.7	57.8
Fuel oil	Bil. kWh	46	65	182	288	320	356	364	303	246
Gas	Bil. kWh	158	221	373	300	295	306	305	329	346
Nuclear	Bil. kWh	1	4	22	173	191	251	276	255	251
Fuel consumed:										
Total coal equivalent	Mil. tons <sup>8</sup>	268	269	583	770	833	922	950	965	985
Coal, including lignite	Mil. tons <sup>8</sup>	177	245	321	406	448	477	482	527	569
Oil	Mil. bbl.	85	115	336	506	556	624	636	523	420
Gas	Mil. cu. ft.	1,724	2,321	3,992	3,158	3,081	3,191	3,188	3,491	3,682

NA not available. Z Less than .5 million. <sup>1</sup> Change from prior year shown; for 1960, change from 1955. For explanation of average annual percent change, see Guide to Tabular Presentation. <sup>2</sup> Plants of 100 kilowatts and over, including stationary powerplants of railroads. <sup>3</sup> For public use. <sup>4</sup> Includes small percentage from wood and waste, geothermal, and petroleum coke. <sup>5</sup> Each prime mover type in combination plants counted separately. <sup>6</sup> Includes limited output of wood, waste and geothermal power. <sup>7</sup> Includes petroleum coke. <sup>8</sup> Short tons.

Source: 1960-1970, U.S. Federal Power Commission, *Electric Power Statistics*, and press releases; thereafter, U.S. Energy Information Administration, *Power Production, Fuel Consumption, and Installed Capacity Data—Annual*, and unpublished data.

## Energy

**NO. 1012. ELECTRIC ENERGY—PRODUCTION AND INSTALLED GENERATING CAPACITY, BY STATES: 1970 AND 1980**

[Capacity as of Dec. 31. Covers utilities for public use and industrial plants for 1970; only utilities for 1980]

STATE	PRODUCTION (bil. kWh)			INSTALLED CAPACITY (mil. kW)		STATE	PRODUCTION (bil. kWh)			INSTALLED CAPACITY (mil. kW)			
	1980		Percent privately owned <sup>1</sup>	1970	1980		1980		Total	Percent privately owned <sup>1</sup>	1970	1980	
	1970	Total					1970	Total					
U.S. ....	1,640.0	2,286.0	78.0	360.8	613.5	S.A.—Con.							
N.E. ....	65.6	78.2	99.1	14.6	21.1	Va. ....	31.0	34.3	98.3	6.8	11.7		
Maine .....	7.3	7.9	99.8	1.4	2.4	W. Va. ....	39.2	70.8	100.0	7.2	15.2		
N.H. ....	5.4	6.0	100.0	1.2	1.6	N.C. ....	53.2	72.1	98.1	10.0	15.6		
Vt. ....	1.0	3.8	96.6	3	.9	S.C. ....	19.0	41.9	79.1	4.8	11.7		
Mass. ....	30.2	34.8	98.5	6.6	9.6	Ga. ....	29.4	63.3	96.6	6.7	16.3		
R.I. ....	1.6	1.0	99.3	.4	.3	Fla. ....	57.8	95.9	85.5	13.9	29.0		
Conn. ....	20.0	24.7	99.9	4.6	6.3	E.S.C. ....	151.7	214.1	37.0	32.0	53.3		
M.A. ....	221.6	260.4	87.0	52.3	78.4	Ky. ....	45.2	57.1	40.3	9.4	13.6		
N.Y. ....	97.8	108.6	69.2	22.7	31.4	Tenn. ....	45.0	60.2	1.4	9.8	15.9		
N.J. ....	38.3	29.4	99.0	8.9	12.6	Ala. ....	49.9	78.3	50.0	10.2	18.2		
Pa. ....	66.5	122.4	100.0	20.7	34.4	Miss. ....	11.6	18.5	87.9	2.7	5.5		
E.N.C. ....	313.0	397.0	96.0	67.8	107.9	W.S.C. ....	211.4	313.1	88.4	46.1	84.7		
Ohio ....	85.8	110.2	99.1	18.2	27.4	Ark. ....	15.4	19.7	88.0	3.6	7.2		
Ind. ....	59.3	70.6	96.6	12.2	17.1	La. ....	46.4	45.7	90.5	9.2	12.9		
Ill. ....	76.7	103.4	96.8	18.3	29.9	Oklahoma. ....	23.6	44.6	89.6	4.8	11.3		
Mich. ....	61.4	74.8	94.0	12.1	22.7	Tex. ....	125.9	203.0	87.8	28.4	53.3		
Wis. ....	29.8	37.8	88.1	6.9	10.7	Mt. ....	76.9	158.8	66.5	17.8	35.8		
W.N.C. ....	102.8	168.1	66.1	24.9	49.0	Mont. ....	10.0	15.5	67.6	1.8	3.2		
Minn. ....	20.4	31.5	95.9	4.5	8.8	Idaho. ....	7.3	9.5	70.2	1.3	2.0		
Iowa. ....	15.1	21.8	93.5	3.7	7.3	Wyo. ....	6.7	22.4	95.0	1.2	4.1		
Mo. ....	29.4	48.9	73.3	7.7	13.8	Colo. ....	12.3	23.6	55.1	2.9	6.1		
N. Dak. ....	6.7	15.8	3.7	1.4	3.4	N. Mex. ....	15.6	24.7	97.7	3.6	5.0		
S. Dak. ....	7.3	8.6	33.0	1.7	2.2	Ariz. ....	14.4	36.9	18.1	4.3	9.4		
Nebr. ....	8.0	16.3	—	2.2	5.1	Utah. ....	4.8	12.1	95.3	1.0	2.1		
Kans. ....	15.9	25.1	84.6	3.7	8.3	Nev. ....	5.9	14.1	83.6	1.6	3.9		
S.A. ....	263.5	417.5	93.4	56.6	111.5	Pac. ....	233.4	278.8	48.1	48.9	71.9		
Del. ....	5.8	6.4	92.3	1.0	1.6	Wash. ....	73.0	92.3	12.5	13.0	23.0		
Md. ....	24.9	32.2	99.7	5.3	9.2	Oreg. ....	30.5	36.6	36.7	5.7	8.5		
D.C. ....	3.1	.7	100.0	1.1	1.2	Calf. ....	123.9	140.3	73.1	28.7	37.8		
						Alaska. ....	1.5	3.1	2.8	4.4	1.1		
						Hawaii. ....	4.4	6.6	100.0	1.1	1.4		

— Represents zero. <sup>1</sup> Percent privately owned electric utilities of total production or capacity.

Source: 1970, U.S. Federal Power Commission, *Electric Power Statistics*, monthly; 1980, U.S. Energy Information Administration, *Power Production, Fuel Consumption, and Installed Capacity Data—Annual*.

**NO. 1013. ELECTRIC UTILITY INDUSTRY—CAPABILITY, PEAK LOAD, AND CAPABILITY MARGIN: 1970 TO 1980**

[Excludes Alaska and Hawaii. Minus sign (—) denotes decrease]

YEAR	CAPABILITY			PEAK LOAD		CAPABILITY MARGIN	
	Total (mil. kW)	Annual increase (mil. kW)	Percent annual increase <sup>1</sup>	Total (mil. kW)	Annual percent change <sup>1</sup>	Total (mil. kW)	Percent of capa- bility
1970: Summer.....	326.9	26.6	8.9	274.7	6.6	52.3	16.0
December.....	339.1	27.6	8.9	248.6	5.1	90.5	26.7
1974: Summer.....	444.4	28.9	7.0	348.3	1.6	95.2	21.4
Winter.....	467.4	34.2	7.9	302.5	2.5	164.9	35.3
1975: Summer.....	479.3	34.9	7.9	356.8	2.2	122.5	25.6
Winter.....	492.5	25.1	5.4	331.1	9.5	161.4	32.8
1976: Summer.....	498.8	19.5	4.1	370.9	4.0	127.9	25.6
Winter.....	511.0	18.5	3.8	349.9	5.7	161.1	31.5
1977: Summer.....	516.0	17.3	3.5	396.4	6.9	119.7	23.2
Winter.....	537.8	28.6	5.2	360.2	2.9	177.4	33.0
1978: Summer.....	545.7	29.7	5.8	408.1	3.0	137.7	25.2
Winter.....	551.5	24.0	4.5	383.1	6.4	178.5	31.8
1979: Summer.....	558.3	12.6	2.2	411.6	.9	146.7	26.3
Winter.....	569.2	7.6	1.4	380.7	—.6	188.5	33.1
1980: Summer.....	562.1	3.8	.7	438.1	6.4	124.0	22.1
Winter.....	(NA)	(NA)	(NA)	395.8	4.0	(NA)	(NA)

NA Not available. <sup>1</sup> Percent change from previous year; e.g., 1970 from 1969 and 1974 from 1973.

Source: Edison Electric Institute, Washington, D.C., 1979 *Statistical Year Book of the Electric Utility Industry* and 1981 *Annual Electric Power Survey*.

**NO. 1014. PRIVATELY AND PUBLICLY OWNED ELECTRIC UTILITY GENERATING PLANTS—NUMBER AND CAPACITY, BY TYPE AND SIZE OF PRIME MOVER: 1970 TO 1980**

[Capacity as of Dec. 31. Each prime mover type in combination plants is counted separately]

TYPE AND SIZE OF PRIME MOVER	NUMBER OF PRIME MOVERS						CAPACITY (mil. kilowatts)					
	1970			1975			1977			1978		
	PRIVately OWNED						PUBLICALLY OWNED					
Total	2,037	2,074	2,078	2,084	2,087	2,094	282.8	398.9	438.3	453.5	464.0	477.0
Steam, conventional	672	622	621	618	620	626	222.4	303.8	332.3	342.4	350.9	361.4
Under 100,000 kW	220	153	143	138	135	134	8.2	6.2	5.7	5.6	5.6	5.6
100,000-500,000 kW	299	252	239	236	237	239	77.1	65.6	62.9	63.1	63.3	64.0
Over 500,000 kW	153	217	239	244	248	253	137.1	232.0	263.8	273.7	281.9	291.8
Steam, nuclear	15	35	41	42	43	43	5.7	33.5	41.7	45.0	46.1	48.0
Over 500,000 kW	7	29	36	37	37	37	4.5	32.3	40.8	44.1	44.8	46.8
Hydro	754	727	730	731	733	732	18.9	23.1	23.1	23.8	23.9	24.2
Over 25,000 kW	165	169	171	172	173	173	15.6	19.9	20.0	20.7	20.7	21.0
Gas turbine	265	388	395	404	406	411	14.4	37.0	39.8	40.5	41.4	41.6
Over 25,000 kW	126	261	270	276	279	281	12.1	34.9	37.4	38.4	39.3	39.4
Internal combustion	331	302	291	289	285	282	1.3	1.5	1.6	1.8	1.8	1.8
Under 5,000 kW	238	198	183	178	172	166	.5	.4	.4	.4	.4	.4
Over 5,000 kW	93	104	108	111	113	116	.9	1.1	1.2	1.4	1.4	1.5
Total	1,496	1,517	1,509	1,502	1,486	1,481	78.8	109.3	121.9	125.6	134.3	136.6
Steam, conventional	326	316	305	304	305	308	37.7	49.6	56.0	57.7	61.5	63.1
Under 100,000 kW	254	226	205	201	195	195	6.9	6.9	6.6	6.4	6.2	6.2
100,000-500,000 kW	58	66	71	73	75	75	12.3	14.8	16.2	16.8	17.6	17.4
Over 500,000 kW	14	24	29	30	35	36	18.5	27.8	33.3	34.6	37.6	39.6
Steam, nuclear	1	10	8	8	8	8	.8	6.2	8.2	8.5	8.5	8.5
Over 500,000 kW	1	4	6	7	7	7	.8	4.9	7.7	8.5	8.5	8.5
Hydro	434	419	415	415	412	410	36.3	42.8	45.6	47.2	51.4	52.1
Over 25,000 kW	164	180	184	185	186	186	35.1	41.7	44.5	46.0	50.3	51.0
Gas turbine	58	109	125	125	131	130	1.1	7.1	8.4	8.5	9.1	9.1
Over 25,000 kW	12	45	59	60	65	65	.4	6.1	7.3	7.4	8.1	8.0
Internal combustion	677	663	656	650	630	625	3.0	3.6	3.7	3.8	3.7	3.7
Under 5,000 kW	471	404	391	387	361	358	1.0	.8	.8	.8	.7	.7
Over 5,000 kW	206	259	265	263	269	267	2.0	2.8	2.9	3.0	3.0	3.0

Source: U.S. Energy Information Administration, unpublished data.

**NO. 1015. FEDERAL ELECTRIC UTILITY PROJECTS—INSTALLED CAPACITY AND INVESTMENT ALLOCATED TO ELECTRIC PLANT: 1960 TO 1979**

[As of June 30. Comprises only electricity-generating plant of these projects; excludes projects not primarily manufacturing electricity (e.g., West Point, Annapolis). Investments represent allocation to power projects for capital equipment and improvements. Reserves for depreciation not deducted.]

PROJECT GROUP OR SYSTEM	INSTALLED CAPACITY (1,000 KW)					INVESTMENT ALLOCATED <sup>1</sup> (mil. dol.)				
	1960	1970	1975	1978	1979	1960	1970	1975	1978	1979
Total	22,616	36,650	47,394	54,530	52,051	5,398	10,121	15,043	21,456	21,460
Percent capacity of all electric utilities...	13.5	10.7	9.7	9.5	9.0	(X)	(X)	(X)	(X)	(X)
Central Valley:										
Bureau of Reclamation	630	1,322	1,331	1,141	(NA)	138	213	332	239	(NA)
Columbia Basin:										
Bonneville Power Admin. <sup>2</sup>	—	—	—	—	—	480	1,118	1,626	1,969	2,061
Bureau of Reclamation	2,282	2,464	2,733	5,167	5,167	277	359	621	859	1,065
Corps of Engineers	3,781	6,522	8,177	10,774	11,448	850	1,603	2,315	3,383	3,531
Hoover and Parker-Davis:										
Bureau of Reclamation	1,585	1,690	1,690	1,705	(NA)	209	225	230	236	(NA)
Missouri Basin:										
Bureau of Reclamation	397	693	691	708	(NA)	304	508	552	609	(NA)
Corps of Engineers	745	2,048	2,048	2,055	2,095	357	714	721	733	733
Southeastern Power Admin.: Corps of Engineers	1,271	1,910	2,083	2,651	2,083	410	644	746	956	810
Southwestern Power Admin.: Southwestern Power Admin. <sup>2</sup>	—	—	—	—	—	27	56	61	63	67
Corps of Engineers	601	1,533	1,847	1,926	1,891	203	438	611	615	590
Tennessee Valley Authority	11,032	17,256	25,450	27,032	28,593	2,054	3,703	6,671	10,926	12,254
Other projects	282	1,212	1,344	1,371	774	88	540	557	868	349

— Represents zero. NA Not available. X Not applicable.

<sup>1</sup> Includes estimates. <sup>2</sup> Transmission.

Source: 1960-1975, U.S. Federal Power Commission; thereafter, U.S. Energy Information Administration, *Statistics of Publicly Owned Electric Utilities in the United States*, annual, and annual summaries.

**NO. 1016. ELECTRIC UTILITIES—BALANCE SHEET AND INCOME ACCOUNT OF PRIVATELY OWNED COMPANIES: 1960 TO 1979**

(In millions of dollars. As of Dec. 31. On the basis of both assets and revenues, these classes (A and B utilities) comprise nearly 100 percent of the privately-owned sector of the electric light and power industry. See also *Historical Statistics, Colonial Times to 1970*, series S 133-146 and V 197-212.)

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979
<b>COMPOSITE BALANCE SHEET</b>									
<b>Assets and other debits</b>	<b>44,742</b>	<b>56,395</b>	<b>87,417</b>	<b>142,990</b>	<b>157,104</b>	<b>173,080</b>	<b>192,055</b>	<b>211,093</b>	<b>234,834</b>
Electric utility plant <sup>1</sup>	45,456	59,703	93,303	146,007	160,711	177,566	186,815	218,001	242,312
Depreciation and amortization	8,889	13,631	20,253	26,870	31,891	35,567	39,814	44,482	49,699
Net electric utility plant	36,567	46,072	73,050	117,137	128,820	141,993	157,001	173,519	192,612
Other utility plant	4,852	6,613	8,974	11,281	11,673	12,097	12,819	13,182	13,868
Depreciation and amortization	963	1,418	2,095	2,865	3,107	3,368	3,662	3,932	4,217
Net other utility plant	3,889	5,195	6,879	8,416	8,566	8,729	8,957	9,250	9,651
Total utility plant	50,308	66,315	102,277	157,288	172,984	189,663	209,434	231,183	256,181
Depreciation and amortization	9,852	15,048	22,348	31,735	34,998	38,935	43,477	48,414	53,916
Net total utility plant	40,456	51,287	79,929	125,555	137,985	150,728	165,957	182,769	202,264
Other property and investments	1,004	1,247	1,742	4,014	4,498	4,822	5,807	6,376	6,999
Current and accrued assets	3,066	3,639	5,321	11,873	13,630	15,571	18,182	18,919	22,424
Deferred debits	216	242	425	1,550	1,691	1,959	2,309	3,030	4,145
<b>Liabilities and other credits</b> <sup>2</sup>	<b>44,742</b>	<b>56,395</b>	<b>87,417</b>	<b>142,990</b>	<b>157,104</b>	<b>173,080</b>	<b>192,055</b>	<b>211,093</b>	<b>234,834</b>
Capital stock	13,322	15,668	20,782	33,984	37,773	41,613	45,599	49,148	53,782
Other paid-in capital	1,747	2,522	4,400	9,419	11,531	13,444	15,613	17,899	19,352
Retained earnings	3,736	5,712	9,363	13,299	14,688	16,233	17,829	19,376	21,025
Subsidiary earnings <sup>3</sup>	(X)	(X)	(X)	485	802	667	795	943	1,003
Long-term debt	21,035	25,502	41,937	64,499	70,929	76,210	82,178	88,262	95,664
Current and accrued liabilities	3,112	4,222	7,309	15,240	13,655	14,054	16,035	18,317	23,398
Deferred credits and operating reserves	277	546	945	1,855	2,689	4,046	5,664	7,143	8,717
Deferred income taxes <sup>1</sup>	1,325	1,829	2,198	4,209	5,368	6,813	8,342	10,004	11,890
<b>COMPOSITE INCOME ACCOUNTS</b>									
Electric operating revenues	10,116	13,400	19,791	37,225	44,598	50,552	58,865	65,427	72,851
Electric operating expenses	7,917	10,296	15,310	30,134	36,075	41,126	48,579	54,345	61,005
Net electric operating revenues	2,199	3,104	4,481	7,091	8,523	9,426	10,286	11,082	11,845
Other utility operating income	198	304	404	495	522	634	589	652	700
Total utility operating income	2,397	3,409	4,885	7,586	9,045	10,060	10,875	11,734	12,545
Other income	178	191	774	1,992	2,208	2,489	2,159	2,516	3,066
Total income	2,575	3,600	5,659	9,578	11,253	12,549	13,034	14,250	15,611
Income deductions	792	1,019	2,251	4,454	5,091	5,355	5,026	5,533	6,184
Net income <sup>3</sup>	1,783	2,581	3,408	5,470	6,132	7,201	8,011	8,717	9,477

X Not applicable. <sup>1</sup> Includes construction work in progress. <sup>2</sup> Includes contributions in aid of construction through 1970.

<sup>3</sup> Unappropriated undistributed. <sup>4</sup> Cumulative. <sup>5</sup> Beginning 1974, includes net extraordinary income.

Source: 1960-1975, U.S. Federal Power Commission; thereafter, U.S. Energy Information Administration, *Statistics of Privately Owned Electric Utilities in the United States*, annual.

**NO. 1017. LARGEST PUBLIC UTILITY COMPANIES—ASSETS, REVENUES, INCOME, AND STOCKHOLDERS' EQUITY, BY RANK OF ASSETS: 1970 AND 1980**

[In millions of dollars, except percent. Excludes telephone and telegraph companies. As of Dec. 31 or calendar year, as applicable]

ASSET GROUP	1970				1980			
	As-sets <sup>1</sup>	Operat-ing rev-enues <sup>2</sup>	Net income	Stock-holders' equity <sup>3</sup>	As-sets <sup>1</sup>	Operat-ing rev-enues <sup>2</sup>	Net income	Stock-holders' equity <sup>3</sup>
40 largest	73,787	21,348	2,640	26,244	205,855	90,359	7,655	66,132
Lowest ten	11,135	3,445	432	4,110	30,397	9,565	643	8,551
Second ten	13,944	4,489	505	4,911	37,327	16,907	1,568	12,329
Third ten	18,066	5,687	628	5,832	51,942	25,685	2,060	16,831
Highest ten	30,642	7,728	1,075	11,391	86,189	38,202	3,384	28,421
Percent of total:								
Lowest ten	15.1	16.1	16.4	15.7	14.8	10.6	8.4	12.9
Second ten	18.9	21.0	19.1	18.7	18.1	20.5	18.6	
Third ten	24.5	26.8	23.8	22.2	25.2	28.4	26.9	25.5
Highest ten	41.5	36.2	40.7	43.4	41.9	42.3	44.2	43.0

<sup>1</sup> Total assets employed in business, net of depreciation; includes consolidated subsidiaries. <sup>2</sup> Gross receipts from operations during year; includes nonutility revenues from manufacturing, transportation, etc. <sup>3</sup> Capital stock excluding redeemable preferred, surplus, and retained earnings (i.e., net worth).

Source: Time, Inc., New York, N.Y., adapted from *The Fortune Directory*, July issues. (Copyright.)

# Electric Energy

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## NO. 1018. ELECTRIC LIGHT AND POWER INDUSTRY—ENERGY GENERATED, SALES, REVENUE, AND CUSTOMERS: 1960 TO 1980

[Sales and revenue are to and from ultimate customers]

CLASS	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980
Energy generated <sup>1</sup>	Bil. kWh.....	753	1,055	1,532	1,867	1,918	2,037	2,124	2,208	2,247	2,286
Sales <sup>2</sup>	Bil. kWh.....	683	953	1,391	1,701	1,733	1,850	1,951	2,018	2,079	2,095
Residential or domestic.....	Bil. kWh.....	196	281	448	555	586	613	652	678	694	721
Percent of total.....	Percent.....	28.7	29.5	32.2	32.6	33.8	33.2	33.4	33.6	33.4	34.4
Commercial <sup>3</sup> .....	Bil. kWh.....	115	202	313	393	418	441	468	481	493	510
Industrial <sup>4</sup> .....	Bil. kWh.....	345	433	573	689	662	725	757	782	816	791
Revenue <sup>2</sup>	Bil. dol.....	11.5	15.2	22.1	39.1	46.9	53.5	62.6	69.8	77.7	91.6
Residential or domestic.....	Bil. dol.....	4.9	6.3	9.4	15.7	18.8	21.1	24.7	27.4	30.0	35.5
Percent of total.....	Percent.....	42.2	41.8	42.7	40.1	40.1	39.6	39.4	39.2	38.6	38.8
Commercial <sup>3</sup> .....	Bil. dol.....	2.8	4.3	6.3	11.2	13.5	15.2	18.0	19.7	21.7	26.0
Industrial <sup>4</sup> .....	Bil. dol.....	3.3	3.9	5.4	10.7	12.7	15.0	17.6	20.3	23.2	27.0
Ultimate customers, Dec. 31 <sup>2</sup>	Million.....	58.9	65.6	72.5	80.1	81.8	83.6	85.6	87.7	89.5	91.7
Residential or domestic.....	Million.....	51.4	57.6	64.0	71.0	72.6	74.2	75.9	77.8	78.4	81.3
Commercial <sup>3</sup> .....	Million.....	6.8	7.4	7.9	8.5	8.6	8.8	8.9	9.1	9.4	9.6
Industrial <sup>4</sup> .....	Million.....	.5	.3	.4	.4	.4	.4	.4	.5	.5	.5
Avg. kWh used per customer .....	1,000.....	11.7	14.7	19.4	21.4	21.4	22.4	23.1	23.3	23.5	23.1
Residential.....	1,000.....	3.9	4.9	7.1	7.9	8.2	8.4	8.7	8.8	8.8	9.0
Commercial <sup>3</sup> .....	1,000.....	17.0	27.4	40.0	46.6	49.0	50.7	52.9	53.1	53.1	53.6
Avg. annual bill per customer.....	Dollar.....	198	234	308	493	578	646	740	807	876	1,012
Residential.....	Dollar.....	95	111	148	224	262	288	329	357	382	442
Commercial <sup>3</sup> .....	Dollar.....	418	584	803	1,327	1,582	1,755	2,031	2,176	2,339	2,733
Avg. revenue per kWh sold.....	Cents.....	1.69	1.59	1.69	2.30	2.70	2.89	3.21	3.46	3.74	4.37
Residential.....	Cents.....	2.47	2.25	2.10	2.83	3.21	3.45	3.78	4.03	4.33	4.93
Commercial <sup>3</sup> .....	Cents.....	2.46	2.13	2.01	2.85	3.23	3.46	3.84	4.10	4.40	5.09
Industrial <sup>4</sup> .....	Cents.....	.97	.90	.95	1.55	1.92	2.07	2.33	2.59	2.85	3.41

<sup>1</sup> Source: 1960-1975, U.S. Federal Power Commission; thereafter, U.S. Energy Information Administration, unpublished data.

<sup>2</sup> Includes other types not shown separately. <sup>3</sup> Small light and power. <sup>4</sup> Large light and power.

Source: Except as noted, Edison Electric Institute, Washington, D.C., *Statistical Year Book*.

## NO. 1019. ELECTRIC ENERGY SALES, BY CLASS OF SERVICE, AND BY STATES: 1979

[In billions of kilowatthours]

DIVISION AND STATE	Total <sup>1</sup>	Residential	Commercial	Industrial		DIVISION AND STATE	Total <sup>1</sup>	Residential	Commercial	Industrial
<b>Total</b> .....	<b>2,071.1</b>	<b>682.8</b>	<b>473.3</b>	<b>841.9</b>	S.A.—Con.					
N.E.	76.1	26.8	23.0	23.8	W. Va.	20.7	6.2	3.4	11.0	
Maine	8.1	3.0	1.5	3.3	N.C.	61.5	22.6	12.2	25.2	
N.H.	6.0	2.5	1.0	2.4	S.C.	35.7	11.4	7.4	16.0	
Vt.	3.8	1.7	.7	1.2	Ga.	48.8	18.4	10.8	19.1	
Mass.	32.9	11.4	12.0	8.4	Fla.	86.6	42.2	23.7	18.0	
R.I.	5.1	1.8	1.7	1.4	E.S.C.	195.9	61.2	29.6	101.2	
Conn.	20.2	6.4	6.1	6.9	Ky.	50.4	12.0	6.1	30.5	
M.A.	254.1	77.4	67.3	97.4	Tenn.	73.1	25.1	12.8	34.1	
N.Y.	104.9	30.2	32.3	32.9	Ala.	50.2	15.0	6.4	28.4	
N.J.	48.6	15.8	15.7	16.5	Miss.	22.2	9.1	4.2	8.2	
Pa.	100.6	31.4	19.3	47.9	W.S.C.	271.6	85.4	55.7	119.8	
E.N.C.	391.6	114.6	78.4	185.1	Ark.	24.7	8.9	4.2	10.9	
Ohio	121.5	31.9	18.7	67.2	La.	50.4	15.5	6.6	22.5	
Ind.	81.6	18.3	9.5	33.3	Okla.	28.8	10.6	6.5	9.8	
Ill.	97.8	29.3	26.1	36.0	Tex.	167.7	50.4	36.4	76.4	
Mich.	73.9	22.0	15.1	35.2	Mt.	108.3	36.2	27.9	40.5	
Wis.	36.8	13.3	9.0	13.5	Mont.	11.1	3.0	1.9	6.1	
W.N.C.	142.4	54.4	32.6	51.5	Idaho.	14.0	5.0	4.2	4.6	
Minn.	33.3	11.5	4.8	16.2	Wyo.	6.7	1.3	.9	4.3	
Iowa	24.4	9.7	5.3	8.9	Colo.	21.1	8.2	6.6	6.0	
Mo.	40.5	16.4	11.3	11.6	N. Mex.	8.6	2.4	2.7	2.9	
N. Dak.	5.2	2.5	.9	1.6	Ariz.	26.1	9.3	7.2	6.1	
S. Dak.	5.1	2.7	.9	1.3	Utah.	10.4	3.2	2.4	4.1	
Nebr.	13.4	5.3	3.5	4.1	Nev.	10.3	3.8	2.0	4.4	
Kans.	20.5	6.3	5.9	7.8	Pac.	285.2	93.0	77.6	103.0	
S.A.	346.1	133.5	81.0	119.9	Wash.	68.6	24.0	10.4	31.6	
Del.	5.9	1.8	1.4	2.6	Oreg.	38.3	13.7	10.0	14.0	
Md. <sup>2</sup>	40.1	12.2	11.0	16.3	Calif.	169.6	52.4	55.0	54.1	
Va.	46.8	18.7	11.1	11.7	Alaska.	2.5	1.1	.9	.4	
					Hawaii.	6.2	1.8	1.3	2.9	

<sup>1</sup> Includes other service, not shown separately. <sup>2</sup> Includes District of Columbia.

Source: U.S. Energy Information Administration, unpublished data.

No. 1020. PRIVATELY OWNED GAS UTILITY INDUSTRY—BALANCE SHEET AND INCOME ACCOUNT: 1960 TO 1980

[In millions of dollars. Excludes Alaska for 1960. The gas utility industry consists of pipeline and distribution companies. Excludes operations of companies distributing gas in bottles or tanks. See also *Historical Statistics, Colonial Times to 1970*, series S 205-218.]

ITEM	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>COMPOSITE BALANCE SHEET</b>									
<b>Assets, total<sup>1</sup></b>	<b>20,000</b>	<b>25,640</b>	<b>34,929</b>	<b>50,286</b>	<b>55,261</b>	<b>59,697</b>	<b>62,918</b>	<b>70,245</b>	<b>75,725</b>
Total utility plant	20,835	26,205	36,541	49,384	52,066	55,020	59,033	62,710	65,767
Depreciation and amortization	4,570	7,205	10,696	16,779	18,693	20,586	22,881	24,400	26,062
Utility plant (net)	16,265	21,000	27,845	32,605	33,373	34,434	36,172	38,310	40,705
Investment and fund accounts <sup>1</sup>	1,380	1,885	3,024	9,198	10,876	12,513	12,805	14,097	15,625
Current and accrued assets	2,185	2,545	3,674	7,543	9,707	11,194	12,129	15,427	17,211
Deferred debits <sup>2</sup>	170	210	386	940	1,305	1,556	1,815	2,411	2,184
<b>Liabilities, total<sup>1</sup></b>	<b>20,000</b>	<b>25,640</b>	<b>34,929</b>	<b>50,286</b>	<b>55,261</b>	<b>59,697</b>	<b>62,918</b>	<b>70,245</b>	<b>75,725</b>
Capitalization, total <sup>1</sup>	16,940	21,520	28,646	39,044	42,379	44,316	45,830	48,165	51,299
Capital stock <sup>1</sup>	7,810	10,005	12,985	19,500	21,593	23,840	25,585	27,135	29,262
Long-term debts	9,130	11,515	15,681	19,544	20,786	20,476	20,245	21,030	22,037
Current and accrued liabilities	2,420	3,035	4,832	8,158	9,063	10,636	11,704	16,024	18,107
Deferred income taxes <sup>3</sup>	350	660	788	2,052	2,525	2,794	2,991	3,798	4,135
Other liabilities and credits	290	425	663	1,032	1,294	1,951	2,393	2,257	2,184
<b>COMPOSITE INCOME ACCOUNT</b>									
Operating revenues, total	8,696	11,525	16,380	30,550	37,618	46,309	52,995	66,931	85,807
Operating expenses <sup>4</sup>	7,587	10,063	14,306	27,480	34,217	42,685	49,272	62,887	81,517
Operation and maintenance	5,951	7,973	11,636	22,957	28,949	36,958	43,108	56,281	74,433
Federal, State, and local taxes	1,058	1,292	1,569	2,763	3,363	3,719	3,980	4,294	4,663
Operating income	1,109	1,462	2,074	3,070	3,402	3,624	3,723	4,043	4,290
Utility operating income	1,137	1,503	2,159	3,221	3,543	3,776	3,944	4,296	4,633
Income before interest charges <sup>1</sup>	1,247	1,660	2,457	4,137	4,646	4,996	5,385	6,303	7,112
Net income <sup>1</sup>	830	1,107	1,427	2,502	2,877	3,193	3,443	4,208	4,377
Dividends	581	781	1,006	1,509	1,783	1,959	2,117	2,362	2,566

<sup>1</sup> Beginning 1975, not comparable with earlier years due to Federal Power Commission ruling requiring adoption of the equity method in reporting earnings of subsidiaries. <sup>2</sup> Includes capital stock discount and expense and reacquired securities.

<sup>3</sup> Includes reserves for deferred income taxes.

<sup>4</sup> Includes expenses not shown separately.

No. 1021. GAS UTILITY INDUSTRY—SUMMARY: 1950 TO 1980

[Excludes Hawaii through 1955 and Alaska through 1960. Covers natural, manufactured, mixed, and liquid petroleum gas. Based on questionnaire mailed to all privately and municipally owned gas utilities in U.S., except those with annual revenues less than \$25,000. See also *Historical Statistics, Colonial Times to 1970*, series S 190-204.]

ITEM	1950	1955	1960	1965	1970	1975	1976	1977	1978	1979	1980
<b>Customers<sup>1</sup> (1,000)</b>	<b>24,001</b>	<b>28,479</b>	<b>33,054</b>	<b>37,338</b>	<b>41,482</b>	<b>44,555</b>	<b>44,942</b>	<b>45,274</b>	<b>45,789</b>	<b>46,478</b>	<b>47,038</b>
Residential	22,146	26,283	30,418	34,341	38,097	40,950	41,338	41,682	42,183	42,821	43,311
Commercial	1,739	2,048	2,458	2,790	3,131	3,367	3,371	3,371	3,370	3,423	3,491
Industrial and other	116	149	178	207	254	237	233	220	236	234	236
<b>Sales<sup>2</sup> (trillion Btu<sup>3</sup>)</b>	<b>4,209</b>	<b>6,659</b>	<b>9,288</b>	<b>11,980</b>	<b>16,044</b>	<b>14,863</b>	<b>14,814</b>	<b>14,341</b>	<b>14,748</b>	<b>15,440</b>	<b>15,409</b>
Residential	1,384	2,239	3,188	3,999	4,923	4,991	5,014	4,946	5,107	5,083	4,823
Percent of total	32.9	33.6	34.3	33.4	30.7	33.6	33.9	34.5	34.6	32.9	31.3
Commercial	410	603	920	1,345	2,007	2,987	2,423	2,409	2,500	2,486	2,442
Industrial	2,289	3,535	4,710	6,146	8,439	6,837	7,107	6,711	6,841	7,555	7,862
Other	126	282	470	490	674	648	270	275	301	316	283
<b>Revenues<sup>2</sup> (mil. dol.)</b>	<b>1,948</b>	<b>3,450</b>	<b>5,617</b>	<b>7,407</b>	<b>10,283</b>	<b>19,101</b>	<b>23,701</b>	<b>28,303</b>	<b>32,150</b>	<b>38,947</b>	<b>48,276</b>
Residential	1,177	2,007	3,177	4,030	5,207	8,445	9,941	11,541	12,939	14,833	17,408
Percent of total	60.4	58.2	56.6	54.4	50.6	44.2	41.9	40.8	40.2	38.1	36.1
Commercial	266	424	723	1,054	1,620	3,302	4,075	4,980	5,696	6,624	8,149
Industrial	480	938	1,563	2,148	3,181	6,745	9,374	11,385	13,065	16,961	22,081
Other	26	81	153	176	274	608	311	397	450	530	637
<b>Prices (dol. per mil. Btu<sup>3</sup>)</b>	<b>.46</b>	<b>.52</b>	<b>.60</b>	<b>.62</b>	<b>.64</b>	<b>1.29</b>	<b>1.60</b>	<b>1.97</b>	<b>2.18</b>	<b>2.52</b>	<b>3.13</b>
Residential	.85	.90	1.00	1.01	1.06	1.69	1.98	2.33	2.53	2.92	3.61
Commercial	.65	.70	.79	.78	.81	1.38	1.68	2.07	2.28	2.66	3.34
Industrial	.21	.27	.33	.35	.38	.99	1.32	1.70	1.91	2.24	2.81
<b>Gas mains mileage (1,000)</b>	<b>387</b>	<b>497</b>	<b>631</b>	<b>768</b>	<b>913</b>	<b>980</b>	<b>987</b>	<b>998</b>	<b>1,013</b>	<b>1,030</b>	<b>1,050</b>
Field and gathering	33	46	56	62	66	68	70	71	75	78	83
Transmission	113	146	184	211	252	263	258	260	261	263	267
Distribution	242	305	391	495	595	649	659	667	678	688	700
<b>Construction expenditure<sup>4</sup> (mil. dol.)</b>	<b>1,198</b>	<b>1,345</b>	<b>1,845</b>	<b>1,935</b>	<b>2,506</b>	<b>2,466</b>	<b>2,425</b>	<b>2,833</b>	<b>3,581</b>	<b>4,366</b>	<b>5,350</b>
Transmission	716	593	870	1,019	590	530	670	895	1,226	1,583	
Distribution	299	500	696	824	913	910	926	1,048	1,228	1,448	1,869
Production and storage	144	198	216	225	370	831	828	943	1,202	1,406	1,150

<sup>1</sup> Annual average. <sup>2</sup> Excludes sales for resale. <sup>3</sup> For definition, see text, p. 575. <sup>4</sup> Includes general.

Source of tables 1020 and 1021: American Gas Association, Arlington, Va., *Gas Facts*, annual. (Copyright.)

# Gas Utility Industry

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## No. 1022. GAS UTILITY INDUSTRY—CUSTOMERS, SALES, AND REVENUES, BY CLASS OF SERVICE, AND STATES: 1980

[See headnote, table 1021]

REGION AND STATE	CUSTOMERS <sup>1</sup> (1,000)				SALES <sup>3</sup> (trillion Btu <sup>4</sup> )				REVENUES <sup>2</sup> (mil. dol.)			
	Total <sup>2</sup>	Residential	Commercial	Industrial	Total <sup>2</sup>	Residential	Commercial	Industrial	Total <sup>2</sup>	Residential	Commercial	Industrial
<b>U.S.</b>	<b>47,038</b>	<b>43,311</b>	<b>3,491</b>	<b>187</b>	<b>15,409</b>	<b>4,823</b>	<b>2,442</b>	<b>7,862</b>	<b>48,276</b>	<b>17,409</b>	<b>8,149</b>	<b>22,081</b>
<b>N. Eng.</b>	<b>1,733</b>	<b>1,597</b>	<b>123</b>	<b>9</b>	<b>298</b>	<b>144</b>	<b>81</b>	<b>70</b>	<b>1,479</b>	<b>788</b>	<b>391</b>	<b>287</b>
Maine	15	13	2	(z)	2	1	1	1	11	4	4	3
N.H.	49	43	6	(z)	10	4	3	2	40	20	14	7
Vt.	15	14	1	(z)	4	1	1	2	23	9	5	8
Mass.	1,079	1,000	71	5	183	91	52	37	905	494	250	149
R.I.	168	156	11	2	26	14	4	8	131	74	23	35
Conn.	406	371	33	2	74	33	20	21	367	187	95	85
<b>Mid. Atl.</b>	<b>7,997</b>	<b>7,418</b>	<b>544</b>	<b>25</b>	<b>1,547</b>	<b>777</b>	<b>289</b>	<b>548</b>	<b>6,573</b>	<b>3,452</b>	<b>1,152</b>	<b>1,843</b>
N.Y.	3,813	3,565	228	12	601	333	109	136	2,664	1,621	450	505
N.J.	1,849	1,670	173	6	318	150	70	98	1,397	733	311	351
Pa.	2,335	2,183	143	7	728	293	110	315	2,512	1,098	390	987
<b>E. Na. Cent.</b>	<b>10,778</b>	<b>9,948</b>	<b>778</b>	<b>48</b>	<b>3,658</b>	<b>1,578</b>	<b>715</b>	<b>1,353</b>	<b>11,584</b>	<b>5,323</b>	<b>2,273</b>	<b>3,951</b>
Ohio	2,747	2,546	192	6	888	403	163	312	2,875	1,392	528	927
Ind.	1,245	1,139	101	5	477	164	68	243	1,344	511	198	630
Ill.	3,301	3,042	239	19	1,100	494	231	374	3,566	1,710	726	1,138
Mich.	2,443	2,270	164	10	850	392	191	266	2,603	1,237	600	765
Wis.	1,043	951	83	8	344	125	61	158	1,177	473	210	491
<b>W. No. Cent.</b>	<b>4,128</b>	<b>3,729</b>	<b>383</b>	<b>15</b>	<b>1,413</b>	<b>489</b>	<b>300</b>	<b>608</b>	<b>3,777</b>	<b>1,508</b>	<b>818</b>	<b>1,425</b>
Minn.	809	736	68	5	267	102	55	103	751	331	161	247
Iowa	745	665	79	2	256	85	51	118	718	271	146	298
Mo.	1,218	1,125	92	1	327	150	92	83	992	505	275	208
N. Dak.	86	76	10	(z)	22	10	11	1	77	37	35	5
S. Dak.	102	91	11	1	24	11	7	6	67	33	20	14
Nebr.	442	384	57	2	153	50	35	68	356	134	82	140
Kans.	724	653	67	5	365	83	49	228	815	196	99	512
<b>So. Atl.</b>	<b>4,032</b>	<b>3,695</b>	<b>316</b>	<b>13</b>	<b>1,278</b>	<b>346</b>	<b>229</b>	<b>668</b>	<b>4,166</b>	<b>1,431</b>	<b>792</b>	<b>1,855</b>
Del.	82	77	5	(z)	23	7	4	11	78	30	14	33
Md.	774	720	49	5	155	70	29	56	598	306	114	178
D.C.	149	133	16	-	28	14	14	-	121	63	58	-
Va.	523	478	43	2	135	48	33	53	482	202	122	153
W. Va.	394	361	32	(z)	129	47	24	57	421	171	78	172
N.C.	367	323	41	2	143	31	23	88	495	125	82	284
S.C.	282	253	25	1	133	19	15	74	403	78	49	214
Ga.	1,030	951	75	2	300	92	55	150	953	375	168	402
Fla.	433	400	31	1	233	18	33	179	615	81	107	418
<b>E. So. Cent.</b>	<b>2,213</b>	<b>1,996</b>	<b>200</b>	<b>7</b>	<b>607</b>	<b>204</b>	<b>111</b>	<b>472</b>	<b>2,306</b>	<b>688</b>	<b>340</b>	<b>1,229</b>
Ky.	627	570	54	1	176	74	33	63	509	228	97	187
Tenn.	510	444	59	2	216	45	36	132	580	133	108	333
Ala.	679	625	50	2	224	54	27	141	699	223	89	385
Miss.	397	357	37	1	192	31	15	136	518	104	46	344
<b>W. So. Cent.</b>	<b>5,508</b>	<b>5,020</b>	<b>455</b>	<b>26</b>	<b>3,535</b>	<b>424</b>	<b>242</b>	<b>2,724</b>	<b>8,941</b>	<b>1,269</b>	<b>650</b>	<b>6,788</b>
Ark.	481	425	53	2	206	41	26	138	397	94	54	246
La.	1,002	932	67	2	515	72	28	402	1,215	220	74	895
Okla.	824	746	74	4	473	77	44	350	986	182	97	685
Tex.	3,201	2,917	261	18	2,340	234	144	1,894	6,362	773	425	4,961
<b>Mt.</b>	<b>2,638</b>	<b>2,395</b>	<b>232</b>	<b>9</b>	<b>828</b>	<b>248</b>	<b>155</b>	<b>409</b>	<b>2,355</b>	<b>800</b>	<b>468</b>	<b>1,040</b>
Mont.	183	163	20	1	54	21	14	17	164	59	42	53
Idaho	109	94	15	(z)	45	7	9	29	183	37	37	108
Wyo.	76	68	9	(z)	46	9	6	31	106	24	14	67
Colo.	840	750	68	2	239	90	65	83	705	289	197	216
N. Mex.	328	292	30	3	125	29	16	70	334	93	44	170
Ariz.	575	529	43	2	136	31	21	82	382	116	60	201
Utah	361	338	22	1	122	47	14	60	285	126	32	126
Nev.	168	162	7	(z)	62	14	11	37	197	56	42	98
<b>Pac.</b>	<b>8,011</b>	<b>7,513</b>	<b>460</b>	<b>37</b>	<b>1,946</b>	<b>613</b>	<b>320</b>	<b>1,010</b>	<b>7,094</b>	<b>2,152</b>	<b>1,266</b>	<b>3,664</b>
Wash.	374	328	44	1	134	31	32	70	579	154	143	281
Oreg.	275	241	34	1	76	19	16	41	355	103	78	174
Calif.	7,286	6,878	375	33	1,700	554	268	876	6,076	1,870	1,029	3,167
Alaska	42	37	5	1	32	8	3	21	39	14	5	20
Hawaii	33	29	2	2	4	1	1	2	45	11	12	23

<sup>a</sup> Represents zero. <sup>b</sup> Fewer than 500.

<sup>1</sup> Averages for the year.

<sup>2</sup> Includes other service, not shown, separately.

<sup>3</sup> Excludes sales for resale.

<sup>4</sup> For definition, see headnote, table 991.

Source: American Gas Association, Arlington, Va., *Gas Facts*, annual. (Copyright.)

## Energy

## NO. 1023. GAS UTILITY INDUSTRY—PRICES, BY STATE: 1970 TO 1980

[In dollars per million Btu. For definition of Btu, see headnote, table 991. Excludes sales for resale]

DIVISION AND STATE	1970	1975	1980				DIVISION AND STATE	1970	1975	1980			
			Total	Residential	Commercial	Industrial				Total	Residential	Commercial	Industrial
U.S.	.64	1.29	3.13	3.61	3.34	2.81	So. Atl.—Con.						
N. Eng.	1.60	2.67	4.96	5.48	4.83	4.09	W. Va.	.64	1.24	3.26	3.61	3.20	3.01
Maine	2.23	3.04	5.18	6.34	5.12	4.29	N.C.	.70	1.58	3.46	4.00	3.64	3.22
N.H.	1.54	2.21	4.23	4.53	4.28	3.48	S.C.	.62	1.10	3.03	4.12	3.17	2.88
Vt.	2.22	2.06	5.65	6.43	6.00	4.93	Ge.	.57	1.12	3.18	4.06	3.06	2.67
Mass.	1.64	2.91	4.96	5.41	4.85	4.06	Fla.	.55	1.15	2.64	4.53	3.26	2.34
R.I.	1.36	2.82	4.89	5.46	5.13	4.15	E. So. Cent.	.51	1.03	2.86	3.37	3.07	2.60
Conn.	1.60	2.93	4.99	5.73	4.72	4.09	Ky.	.67	1.11	2.90	3.08	2.97	2.67
Mid. Atl.	1.06	1.97	3.98	4.44	3.99	3.36	Tenn.	.53	1.00	2.69	2.94	2.99	2.53
N.Y.	1.21	2.14	4.43	4.86	4.14	3.70	Ala.	.52	1.04	3.13	4.11	3.30	2.72
N.J.	1.26	2.31	4.40	4.89	4.47	3.60	Miss.	.38	.95	2.70	3.38	3.04	2.82
Pa.	.87	1.68	3.45	3.74	3.54	3.14	W. So. Cent.	.35	.99	2.53	2.99	2.69	2.49
E. No. Cent.	.74	1.34	3.17	3.37	3.18	2.92	Ark.	.37	.80	1.93	2.31	2.06	1.79
Ohio	.73	1.35	3.24	3.45	3.23	2.97	La.	.30	.85	2.36	3.06	2.69	2.23
Irid.	.71	1.16	2.82	3.12	2.92	2.59	Oklia.	.46	.79	2.04	2.95	2.19	1.96
Ill.	.73	1.35	3.28	3.46	3.19	3.04	Tex.	.35	1.10	2.72	3.30	2.95	2.70
Mich.	.78	1.43	3.06	3.15	3.14	2.87	Mt.	.49	.99	2.84	3.23	3.02	2.54
Wis.	.80	1.31	3.42	3.80	3.43	3.12	Mont.	.54	1.03	3.03	2.88	2.93	3.17
W. No. Cent.	.56	1.00	2.67	3.08	2.72	2.34	Idaho	.67	1.48	4.03	4.94	4.33	3.70
Minn.	.87	1.19	2.81	3.24	2.92	2.40	Wyo.	.34	.70	2.31	2.89	2.45	2.18
Iowa	.62	1.04	2.81	3.20	2.85	2.51	Colo.	.48	.90	2.95	3.22	3.03	2.60
Mo.	.54	1.18	3.04	3.37	2.98	2.51	N. Mex.	.42	.88	2.68	3.21	2.83	2.44
N. Dak.	.82	1.26	3.57	3.83	3.34	3.59	Ariz.	.57	1.19	2.81	3.72	2.90	2.45
S. Dak.	.71	1.05	2.81	3.11	2.76	2.34	Utah	.46	.85	2.34	2.68	2.25	2.09
Nebr.	.51	.90	2.34	2.71	2.32	2.07	Nev.	.58	1.30	3.17	3.97	3.95	3.65
Kans.	.39	.69	2.23	2.38	2.03	2.24	Pac.	.58	1.31	3.65	3.51	3.95	3.63
So. Atl.	.72	1.39	3.26	4.13	3.45	2.78	Wash.	.65	1.55	4.23	4.91	4.48	4.00
Del.	.93	1.73	3.46	4.15	3.77	3.04	Oreg.	.74	1.80	4.64	5.36	4.91	4.20
Md.	1.13	1.87	3.87	4.40	3.95	3.17	Calif.	.56	1.26	3.57	3.38	3.83	3.62
D.C.	1.28	2.21	4.38	4.56	4.21		Alaska	.70	.81	1.20	1.73	1.48	.95
Va.	.95	1.78	3.58	4.24	3.71	2.91	Hawaii	2.76	6.78	13.01	14.58	12.79	12.50

- Represents zero.

Source: American Gas Association, Arlington, Va., *Gas Facts*, annual (copyright).

## NO. 1024. WATER POWER—DEVELOPED AND UNDEVELOPED, BY DIVISION: 1950 TO 1979

[In millions of kilowatts. As of Dec. 31. Excludes Alaska and Hawaii for 1950 and all capacity of reversible equipment at pumped storage projects (12.9 million kW in 1979). Also excludes capacity precluded from development due to wild and scenic river legislation. See also *Historical Statistics, Colonial Times to 1970*, series S 160-175]

DIVISION	DEVELOPED INSTALLED CAPACITY							ESTIMATED UNDEVELOPED CAPACITY						
	1950	1960	1965	1970	1975	1978	1979	1950	1960	1965	1970	1975	1978	1979
U.S.	18.7	33.2	44.5	52.0	57.0	61.0	63.3	87.6	114.2	124.1	128.0	113.7	109.9	110.5
New England	1.2	1.5	1.5	1.5	1.5	1.5	3.3	2.9	3.2	3.3	3.3	2.8	3.0	
Middle Atlantic	1.7	2.5	4.8	4.3	4.2	4.2	6.6	7.6	5.0	4.5	4.3	4.6	4.4	
E. No. Central	.9	.9	.9	.9	.9	1.0	1.0	2.3	3.0	1.4	1.6	1.4	1.4	
W. No. Central	.6	1.6	3.0	2.7	2.8	2.8	5.8	6.4	4.1	4.4	2.1	2.5	2.3	
South Atlantic	2.8	3.8	5.2	5.3	5.8	5.8	5.9	8.2	10.0	9.6	8.4	8.5	8.1	
E. So. Central	2.7	3.8	4.5	5.2	5.5	5.3	5.4	4.7	4.6	4.3	3.8	3.1	3.5	
W. So. Central	.5	.9	1.7	1.9	2.3	2.3	2.3	3.6	3.9	3.1	3.3	2.7	2.8	
Mountain	2.3	4.6	5.6	6.2	6.9	7.3	23.4	23.8	26.5	26.7	19.6	17.8	20.8	
Pacific	6.0	13.6	17.4	23.9	27.2	30.8	33.0	29.8	53.8	66.5	70.9	68.8	66.0	63.9

Source: 1950-1975, U.S. Federal Power Commission, *Hydroelectric Power Resources of the United States, Developed and Undeveloped*, Jan. 1, 1976; thereafter, U.S. Federal Energy Regulatory Commission, unpublished data.

## NO. 1025. SOLAR COLLECTOR SHIPMENTS, BY TYPE, 1975 TO 1980, AND USE, 1979 AND 1980

[In thousands of sq. feet, except number of manufacturers. Solar collector-device for intercepting sunlight, converting the sunlight to heat, and carrying the heat to where it will be either used or stored]

ITEM	1975	1976	1977	1978	1979	1980	END USE	1979	1980
Number of manufacturers	131	186	321	351	349	364	Total shipments	14,261	19,455
Producer shipments, total	3,743	5,801	10,312	10,860	14,251	19,455	Pool heating	8,551	11,893
Low temperature collector	3,026	3,876	4,743	5,873	8,394	11,928	Domestic hot water	2,958	4,802
Medium (temperature, special), and other collectors	717	1,925	5,569	4,988	5,856	7,527	Space heating	1,722	1,768
							Space cooling	232	160
							Industrial processing	233	364
							Other	556	350

Source: U.S. Energy Information Administration, *Energy Data Report, Solar Collector Manufacturing Activity*, July through December 1980.

## No. 1026. NUCLEAR POWER PLANTS—NUMBER, CAPACITY, AND GENERATION, 1965 TO 1980

ITEM	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980, prel.
Operating reactors <sup>1</sup> .....	10	19	37	48	51	59	68	71	71	75
Capacity <sup>1</sup> (mil. kWh) .....	.9	6.5	21.0	31.6	39.8	42.9	49.9	53.5	54.6	56.5
Percent of total electric utility capacity .....	.4	1.9	4.8	6.6	8.1	9.0	9.2	9.1	9.2	9.2
Electricity generated (bil. kWh) .....	3.7	21.8	83.3	114	173	191	251	276	255	251
Percent of total electric utility generation .....	.4	1.4	4.5	6.1	9.0	9.4	11.8	12.5	11.4	11.0

<sup>1</sup> As of year end. Includes plants shut down permanently or for extended periods.Source: U.S. Energy Information Administration; *Annual Report to Congress*, vols. II and III.

## No. 1027. COMMERCIAL NUCLEAR POWER GENERATION, BY COUNTRY: 1970 TO 1980

[Generation for calendar years; other data as of December. Excludes Communist countries]

COUNTRY	REACTORS			ELECTRICITY GENERATED <sup>1</sup> (bil. kWh)					GROSS CAPACITY (1,000 kW)				
	1970	1975	1980	1970	1975	1978	1979	1980	1970	1975	1978	1979	1980
Total.....	64	140	208	73.9	329.0	550.4	577.4	617.8	15,186	69,198	105,675	115,894	128,847
U.S. ....	15	55	74	23.2	181.8	292.7	279.7	265.2	5,211	39,399	54,133	54,191	56,529
Argentina.....	-	1	1	-	2.5	2.9	2.7	2.3	-	340	367	358	357
Belgium.....	1	3	3	.3	6.8	12.5	11.3	12.5	11	1,744	1,744	1,744	1,744
Canada.....	1	5	9	.8	13.2	32.9	38.4	40.4	220	2,380	4,788	5,588	5,588
China: Taiwan.....	-	-	-	-	-	2.7	6.3	8.2	-	-	1,272	1,272	1,272
Germany, F.R. of.....	4	7	11	5.3	21.7	32.5	40.3	43.7	907	3,452	6,413	8,346	8,986
Great Britain.....	27	29	33	26.5	30.5	36.6	38.5	37.2	4,783	6,195	8,761	9,012	9,012
Finland.....	-	-	4	-	-	3.2	6.6	7.0	-	-	465	1,148	2,296
France.....	4	10	22	5.7	18.3	30.5	39.9	61.2	1,806	3,066	6,642	8,756	15,412
India.....	2	3	4	2.2	2.5	2.3	2.9	2.9	400	620	620	620	880
Italy.....	3	3	4	3.3	3.8	4.4	2.6	2.2	631	639	1,490	1,490	1,490
Japan.....	3	10	22	3.3	16.7	50.9	62.0	81.0	828	5,278	11,502	15,121	15,117
Korea, Rep. of.....	-	-	1	-	-	2.3	3.1	3.5	-	-	587	587	587
Netherlands.....	1	2	2	.4	3.3	4.1	3.5	4.2	55	523	523	523	529
Pakistan.....	-	1	1	-	.5	.2	.1	.1	-	137	137	137	137
Spain.....	1	3	3	.9	7.5	7.6	6.7	5.2	160	1,117	1,117	1,117	1,117
Sweden.....	1	5	8	(2)	12.0	23.8	21.0	26.7	12	3,312	3,850	3,850	5,770
Switzerland.....	1	3	4	1.9	7.7	8.3	11.8	14.3	364	1,054	1,064	2,034	2,034

- Represents zero. Z Less than 50 million kWh. <sup>1</sup> Gross.Source: McGraw-Hill, Inc., New York, N.Y., *Nucleonics Week*, December issues. (Copyright.)

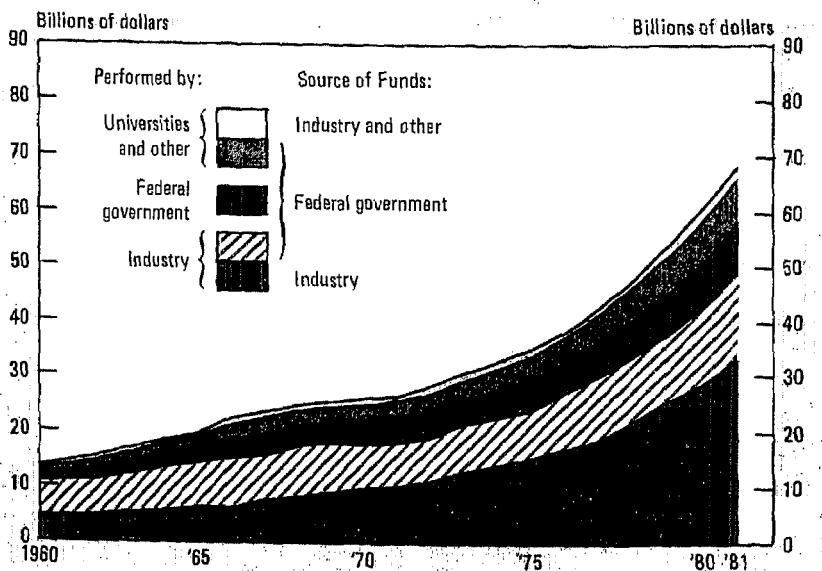
## No. 1028. URANIUM SUPPLY, ENRICHMENT, AND DISCHARGED COMMERCIAL REACTOR FUEL: 1965 TO 1980

[Years ending Dec. 31. Metric ton=1.102 short tons or .984 long ton]

ITEM	Unit	1965	1970	1974	1975	1976	1977	1978	1979	1980
<b>URANIUM (<math>U_3O_8</math>)</b>										
Production.....	Sh. tons.....	10,442	12,900	11,526	11,600	12,747	14,940	18,490	18,730	21,850
Exports.....	Sh. tons.....	-	2,100	1,500	500	600	2,000	3,400	2,600	2,000
Imports.....	Sh. tons.....	4,000	-	-	700	1,800	2,800	2,800	1,500	1,800
Delivered price.....	Dol./lb.....	(NA)	(NA)	7.90	10.50	16.10	19.75	21.60	23.85	26.00
<b>ENRICHMENT</b>										
Enriched product.....	Metric tons.....	146	1,548	1,970	2,707	2,685	3,117	3,023	3,507	2,539
For domestic customers.....	Metric tons.....	47	1,176	1,124	1,190	1,090	1,881	1,506	2,270	1,666
For foreign customers.....	Metric tons.....	99	372	848	1,517	1,595	1,236	1,517	1,237	873
Cost of services.....	Mil. dol.....	(NA)	83.8	719.7	562.6	668.9	659.1	877.2	1,234	997
<b>DISCHARGED COMMERCIAL REACTOR FUEL<sup>1</sup></b>										
Annual discharge.....	Metric tons.....	(NA)	67	454	547	730	911	1,131	1,226	1,279
Inventory, yearend.....	Metric tons.....	(NA)	<sup>2</sup> 161	1,037	1,584	2,314	3,225	4,333	5,559	6,838

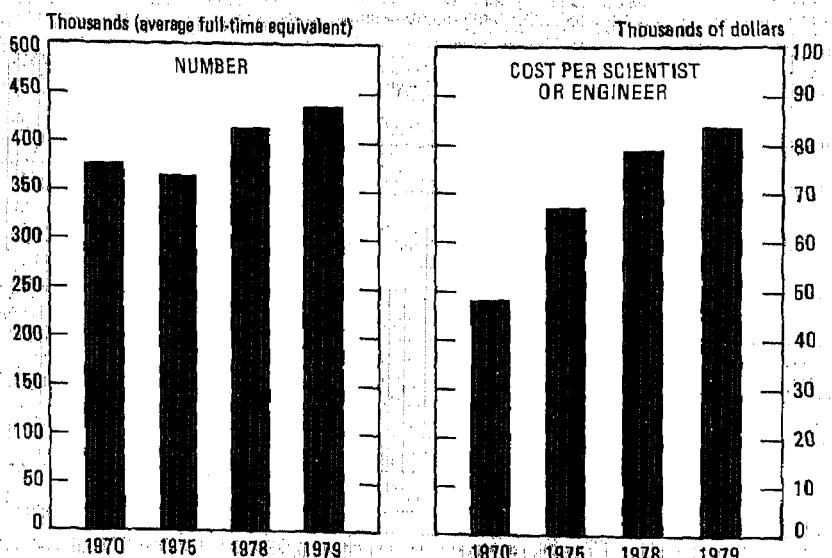
<sup>1</sup> Represents zero. NA Not available. <sup>2</sup> Uranium content. Source: Nuclear Assurance Corporation, Atlanta, Ga.<sup>2</sup> Allows for reprocessing.Source: Except as noted, Energy Information Administration, *Annual Report to Congress*, vol. II; U.S. Dept. of Energy, *Statistical Data of the Uranium Industry, 1981*; and unpublished data.

**Figure 21.1**  
**Research and Development, Funds Used: 1960 to 1981**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1031.

**Figure 21.2**  
**Research and Development Scientists and Engineers in Private Industry: 1970 to 1979**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1044.



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## Section 21

# Science

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This section presents statistics on scientific and technological resources, with emphasis on patterns of research and development (R&D) funding and on scientific and technical personnel and education. Also included are statistics on space program outlays and accomplishments. Principal sources of these data are the National Science Foundation (NSF) and the National Aeronautics and Space Administration (NASA).

NSF gathers data chiefly through recurring surveys. Some current NSF publications containing data on funds for research and development and on scientific and engineering personnel include *Science Resources Studies Highlights* and the occasional bulletin series, *Reviews of Data on Science Resources*; and annual, biennial, and special reports such as *Federal Funds for Research and Development*; *Research and Development in Industry*; *National Patterns of Science and Technology Resources*; *Academic Science: R&D Funds, Scientists and Engineers, Graduate Enrollment and Support*; *Scientists and Engineers From Abroad*; *Federal Scientific and Technical Personnel*; *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions*; *Characteristics of Doctoral Scientists and Engineers in the United States*; *U.S. Scientists and Engineers*; *Employment Attitudes of Recent Science and Engineering Graduates*; *Science and Engineering Employment*; *Characteristics of Experienced Scientists and Engineers*; *Scientists, Engineers, and Technicians in Private Industry*; *Science and Engineering Personnel: A National Overview*; and policy reports relating to national allocation of human resources and funds to science and technology. Statistical surveys in these areas pose particularly difficult problems of concept and definition and the data should, therefore, be regarded as broad estimates rather than precise quantitative statements. Detailed discussions of the scope and limitations of the data appear in the source publications.

The National Science Board's biennial *Science Indicators* publication contains data and analyses of international and domestic science and technology, including measures of their outputs and impacts. *The Budget of the United States Government*, published by the U.S. Office of Management and Budget, contains summary financial data on Federal R&D programs. In addition, *Current Industrial Reports, MQ37D*, published by U.S. Bureau of the Census, presents data on sales and orders of space vehicle systems.

**Research and development outlays.**—NSF defines research as a "systematic and intensive study directed toward a fuller knowledge of the subject studied" and development as "the systematic use of scientific knowledge directed toward the production of useful materials, devices, systems, methods, or processes." National data on outlays of funds are composed of four sectors: (1) *Government*, made up primarily of Federal executive agencies; (2) *industry*, consisting of manufacturing and nonmanufacturing firms and the federally funded research and development centers (FFRDC's) they administer; (3) *universities and colleges*, composed of universities, colleges, and their affiliated institutions, agricultural experiment stations, and associated schools of agriculture, and FFRDC's administered by educational institutions; and (4) *other nonprofit institutions*, consisting of such organizations as private philanthropic foundations, nonprofit research institutes, voluntary health agencies, and FFRDC's administered by nonprofit organizations. The R&D funds reported consist of current operating costs, including those for planning and administration, except as otherwise noted. They exclude funds for routine testing, mapping and surveying, collection of general-purpose data, dissemination of scientific information, and training of scientific personnel.

**Scientists, engineers, and technicians.**—Scientists and engineers are defined as persons engaged in scientific and engineering work at a level requiring a knowledge of sciences equivalent at least to that acquired through completion of a 4-year college course. Technicians are defined as persons engaged in technical work at a level requiring knowledge acquired through a technical institute, junior college, or other type of training less extensive than 4-year college training.

**Historical statistics.**—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

## NO. 1029. RESEARCH AND DEVELOPMENT—OUTLAYS: 1955 TO 1981

[Includes basic research, applied research, and development. Defense-related outlays comprise all research and development spending by Dept. of Defense, including space activities, and a portion of Department of Energy funds. Space-related outlays are those of the National Aeronautics and Space Administration; they exclude space activities of other Federal agencies, estimated at less than 5 percent of all space research and development spending. Minus sign (-) denotes decrease]

YEAR OR PERIOD	CURRENT DOLLARS			CONSTANT (1972) DOLLARS		ANNUAL PERCENT CHANGE <sup>a</sup>		PERCENT OF TOTAL R AND D OUTLAYS					
								Federally funded defense-space-related			Other outlays		
	Total <sup>1</sup> (bil. dol.)	De- fense space related (bil.dol)	Other (bil. dol.)	Total (bil. dol.)	Per- cent of GNP <sup>2</sup>	Current dol- lars	Con- stant dol- lars	Total	De- fense	Space	Total	Non- Fed- eral	Fed- eral
1955 .....	6.2	3.0	3.1	10.1	1.5	9.4	7.2	49	48	1	51	43	8
1956 .....	8.4	4.2	4.2	13.3	2.0	35.5	31.4	50	49	1	50	42	8
1957 .....	9.8	5.3	4.5	15.0	2.2	16.9	13.0	54	53	1	47	38	9
1958 .....	10.7	5.8	4.9	16.2	2.4	9.6	7.6	54	53	1	47	37	10
1959 .....	12.4	7.0	5.3	18.3	2.5	15.4	12.8	57	54	3	43	35	8
1960 .....	13.5	7.4	6.1	19.6	2.7	9.4	7.6	55	52	3	44	35	9
1961 .....	14.3	8.0	6.3	20.6	2.7	5.9	4.8	56	50	6	44	35	9
1962 .....	15.4	8.5	6.9	21.8	2.7	7.5	5.7	55	48	7	45	36	9
1963 .....	17.1	9.4	7.7	23.7	2.9	10.8	9.1	55	41	14	45	34	11
1964 .....	18.9	10.6	8.3	25.9	3.0	10.5	8.9	56	37	19	43	34	9
1965 .....	20.0	10.8	9.2	26.9	2.9	6.3	4.0	54	33	21	46	35	11
1966 .....	21.8	11.4	10.5	28.4	2.9	9.0	5.7	52	33	19	48	36	12
1967 .....	23.1	11.3	11.8	29.2	2.9	6.0	5.8	49	35	14	51	38	13
1968 .....	24.6	11.8	12.8	29.8	2.8	6.3	2.0	48	35	13	52	39	13
1969 .....	25.6	11.5	14.1	29.6	2.7	4.2	-8	45	34	11	55	42	13
1970 .....	26.1	11.2	14.9	28.5	2.6	1.7	-3.5	43	33	10	57	43	14
1971 .....	28.7	10.9	15.7	27.8	2.5	2.2	-2.6	41	32	9	59	44	15
1972 .....	28.4	11.4	17.1	28.4	2.4	6.7	2.3	40	32	8	60	45	15
1973 .....	30.7	11.7	19.0	29.1	2.3	7.9	2.4	38	31	7	62	47	15
1974 .....	32.8	11.5	21.3	28.8	2.3	7.0	-1.2	35	28	7	65	49	16
1975 .....	35.2	12.0	23.2	28.2	2.3	7.2	-2.0	34	27	7	66	49	17
1976 .....	36.9	13.2	25.7	29.5	2.3	10.7	4.7	34	26	8	66	49	17
1977 .....	42.9	13.7	29.2	30.7	2.2	11.2	3.9	32	25	7	68	50	18
1978 .....	48.0	14.9	33.1	32.0	2.2	11.8	4.4	31	24	7	69	51	19
1979 .....	54.2	16.3	38.0	33.3	2.3	12.9	4.0	30	23	7	70	51	19
1980, prel .....	61.1	18.9	42.2	34.5	2.3	12.7	3.6	31	23	8	69	52	18
1981, est .....	69.1	20.7	48.3	35.5	2.4	13.0	2.8	30	23	7	70	53	17
Annual average:													
1960-1969 .....	19.4	10.1	9.4	25.6	2.8	7.8	5.0	53	40	13	48	36	11
1970-1979 .....	36.4	12.7	23.7	29.6	2.3	7.9	1.2	36	28	8	64	48	16
1980-1981 .....	65.1	19.8	45.3	35.0	2.4	12.9	3.2	31	23	8	69	52	17

<sup>1</sup> Includes revisions not shown in detail. <sup>2</sup> GNP = Gross national product. <sup>3</sup> Change from prior year shown; 1955 change from 1954.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources, 1981*, NSF 81-308, and unpublished data.

## NO. 1030. RESEARCH AND DEVELOPMENT—SOURCE OF FUNDS AND PERFORMANCE SECTOR: 1960 TO 1981

[In millions of dollars. See headnote, table 1031]

YEAR	SOURCE OF FUNDS					PERFORMANCE SECTOR						
	Total	Fed- eral Govt.	Indus- try	Univ., col- leges	Other <sup>1</sup>	Total	Fed- eral Govt.	Indus- try	Univ., col- leges	Associa- ted FFRDC's	Other <sup>1</sup>	
<b>Current dollars:</b>												
1960 .....	13,523	8,738	4,516	149	120	13,523	1,726	10,509	646	360	282	
1965 .....	20,044	13,012	6,548	267	217	20,044	3,093	14,185	1,474	629	663	
1970 .....	26,072	14,830	10,444	461	397	26,072	4,017	18,067	2,355	737	916	
1975 .....	35,169	18,065	15,820	749	535	35,169	5,310	24,187	3,409	987	1,276	
1979 .....	54,215	26,556	25,638	1,183	838	54,215	7,497	37,606	5,183	1,935	1,994	
1980 .....	61,127	29,302	29,475	1,385	965	61,127	8,052	42,750	5,950	2,200	2,175	
1981 .....	69,065	32,665	33,865	1,485	1,050	69,065	8,965	49,150	6,300	2,300	2,350	
<b>Constant (1972) dollars:</b>												
1960 .....	19,635	12,673	6,573	214	175	19,635	2,481	15,297	928	517	412	
1965 .....	26,896	17,443	8,806	356	291	26,896	4,124	19,077	1,965	838	892	
1970 .....	28,545	16,248	11,421	506	370	28,545	4,413	19,756	2,564	809	1,003	
1975 .....	28,169	14,526	12,603	608	432	28,169	4,315	19,263	2,771	802	1,018	
1979 .....	33,304	16,312	15,751	727	514	33,304	4,604	23,104	3,182	1,188	1,226	
1980 .....	34,499	16,551	16,619	784	545	34,499	4,556	24,103	3,367	1,245	1,228	
1981 .....	35,457	16,781	17,373	783	540	35,457	4,612	25,216	3,239	1,183	1,207	

<sup>1</sup> Nonprofit institutions.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources, 1981*.

**NO. 1031. RESEARCH AND DEVELOPMENT (R AND D) FUNDS, BY PERFORMANCE SECTOR AND SOURCE: 1965 TO 1981**

[In millions of dollars, except percent. Data primarily on calendar year basis—calendar year data for industry and other nonprofit institutions combined with Federal and university fiscal year data. Data refer, in general, to natural sciences including engineering, and to social sciences in all but industry sector. Excludes capital expenditures data. Expenditures at associated federally funded research and development centers administered by industry and other nonprofit institutions included in totals of respective sectors. See also *Historical Statistics, Colonial Times to 1970*, series W 109-125.]

PERFORMANCE SECTOR AND SOURCE OF FUNDS	1965	1970	1974	1975	1976	1977	1978	1979	1980, proj.	1981, est.
<b>Total R &amp; D<sup>1</sup></b>	<b>20,044</b>	<b>26,072</b>	<b>32,814</b>	<b>35,169</b>	<b>38,935</b>	<b>42,923</b>	<b>46,023</b>	<b>54,215</b>	<b>61,127</b>	<b>69,065</b>
In 1972 dollars	26,896	28,545	28,755	28,169	29,499	39,654	32,010	33,304	34,499	35,457
Percent Federal as source	64.9	56.9	51.2	51.4	60.9	50.5	49.8	49.0	47.9	47.3
Percent of gross national product	2.9	2.6	2.3	2.3	2.3	2.2	2.2	2.2	2.3	2.4
Federal Government	3,093	4,017	4,861	5,310	5,688	6,053	6,856	7,497	8,052	8,965
Industry	14,185	18,067	22,887	24,187	26,997	29,928	33,164	37,606	42,750	49,150
Federal funds	7,740	7,779	8,220	8,605	9,561	10,521	11,163	12,342	13,700	15,750
Industry funds	6,445	10,288	14,667	15,582	17,436	19,407	22,001	25,264	29,050	33,400
Universities and colleges	1,474	2,335	3,023	3,409	3,727	4,083	4,614	5,183	5,950	6,300
Federal funds	1,073	1,648	2,032	2,288	2,512	2,729	3,057	3,432	3,900	4,100
Industry funds	41	61	96	113	123	139	170	194	225	240
University and college funds <sup>3</sup>	267	461	677	749	808	881	1,028	1,183	1,385	1,485
Other nonprofit institutions funds <sup>3</sup>	93	165	218	259	284	314	359	374	440	475
Univ. and colleges, associated federally funded R & D centers	629	737	865	987	1,147	1,384	1,717	1,935	2,200	2,300
Other nonprofit institutions	663	916	1,178	1,276	1,376	1,495	1,672	1,994	2,175	2,350
Federal funds	477	649	822	875	925	987	1,100	1,350	1,450	1,550
Industry funds	62	95	115	125	135	150	165	180	200	225
Other <sup>4</sup>	124	172	241	276	316	358	407	464	525	575
<b>Total research, basic and applied</b>	<b>6,894</b>	<b>9,222</b>	<b>11,418</b>	<b>12,446</b>	<b>13,925</b>	<b>15,289</b>	<b>17,156</b>	<b>19,361</b>	<b>21,658</b>	<b>24,062</b>
In 1972 dollars	9,234	10,108	10,085	10,018	10,559	10,891	11,437	11,892	12,348	12,361
Percent Federal as source	62.9	59.9	56.0	55.7	55.5	56.3	58.1	55.6	54.8	53.5
Federal Government	1,354	1,857	2,221	2,439	2,783	2,929	3,191	3,451	3,713	3,977
Industry	3,250	4,029	4,987	5,300	5,931	6,567	7,296	8,302	9,500	10,900
Federal funds	1,224	1,207	1,188	1,287	1,385	1,541	1,670	1,850	2,110	2,400
Industry funds	2,026	2,822	3,799	4,013	4,546	5,026	5,626	6,452	7,390	8,500
Universities and colleges	1,417	2,223	2,890	3,261	3,563	3,863	4,378	4,920	5,640	5,975
Federal funds	1,036	1,564	1,961	2,210	2,425	2,617	2,935	3,288	3,725	3,920
Industry funds	39	56	90	106	114	125	155	178	205	220
University and college funds <sup>3</sup>	252	448	635	702	756	823	950	1,103	1,295	1,385
Other nonprofit institutions funds <sup>3</sup>	90	155	204	243	268	298	338	351	415	450
Univ. and colleges, associated federally funded R & D centers	412	485	502	573	686	867	1,116	1,298	1,500	1,575
Other nonprofit institutions	461	628	818	873	962	1,043	1,175	1,390	1,505	1,635
Federal funds	307	409	525	545	595	635	720	880	930	1,000
Industry funds	50	77	94	103	112	123	135	145	160	180
Other <sup>4</sup>	104	142	199	225	255	285	320	365	415	455
<b>Total basic research</b>	<b>2,555</b>	<b>3,496</b>	<b>4,207</b>	<b>4,575</b>	<b>4,926</b>	<b>5,485</b>	<b>6,318</b>	<b>7,164</b>	<b>8,132</b>	<b>8,772</b>
In 1972 dollars	3,416	3,837	3,732	3,700	3,740	3,906	4,211	4,400	4,599	4,510
Percent of total R & D	12.7	13.4	12.8	13.0	12.7	12.8	13.2	13.2	13.3	12.7
Percent Federal as source	70.8	68.7	68.5	67.9	68.8	69.4	68.9	68.9	68.3	67.5
Federal Government	364	524	664	701	738	867	973	1,026	1,097	1,172
Industry	592	602	699	730	819	911	1,028	1,188	1,350	1,550
Federal funds	186	158	163	157	185	210	245	275	310	350
Industry funds	406	444	536	573	634	701	783	913	1,040	1,200
Universities and colleges	1,198	1,795	2,154	2,410	2,548	2,795	3,165	3,552	4,065	4,300
Federal funds	879	1,296	1,523	1,694	1,841	2,009	2,282	2,518	2,850	3,000
Industry funds	26	40	61	72	71	79	99	114	130	140
University and college funds <sup>3</sup>	164	350	432	478	474	519	596	703	825	885
Other nonprofit institutions funds <sup>3</sup>	69	110	138	166	162	188	208	217	260	275
Univ. and colleges, associated federally funded R & D centers	208	269	285	309	359	402	567	718	850	900
Other nonprofit institutions	253	305	405	425	464	510	585	680	770	850
Federal funds	172	189	245	245	265	290	335	400	450	500
Industry funds	29	44	54	60	64	70	80	85	95	105
Other <sup>4</sup>	52	72	106	120	135	150	170	195	225	245
<b>Total development</b>	<b>13,150</b>	<b>16,850</b>	<b>21,398</b>	<b>22,723</b>	<b>25,010</b>	<b>27,654</b>	<b>30,867</b>	<b>34,854</b>	<b>39,269</b>	<b>45,003</b>
In 1972 dollars	17,652	18,437	18,690	18,153	18,940	19,763	20,573	21,412	22,151	23,096
Percent of total R & D	65.6	64.6	65.2	64.6	64.2	64.4	64.3	64.3	64.2	65.2
Percent Federal as source	66.0	55.2	48.6	48.5	47.8	47.3	46.2	45.3	44.1	44.0

<sup>1</sup> Basic research, applied research, and development. <sup>2</sup> Based on 2d qtr. GNP. <sup>3</sup> Includes State and local government funds received by these institutions and used for research and development. <sup>4</sup> Includes estimates for independent nonprofit hospitals and voluntary health agencies.

**No. 1032. FEDERAL FUNDING FOR RESEARCH AND DEVELOPMENT, BY FUNCTION: 1973 to 1982**

[In millions of dollars. For years ending June 30 except, beginning 1977 ending Sept. 30. Excludes R&D plant. For any given year, obligations differ from expenditures (see table 1034) because not all funds are expended during year obligated. Data for 1973-77 are shown in obligations, and for 1978-82 are shown in budget authority. See *Historical Statistics, Colonial Times to 1970*, series W 126, for total obligations.]

FUNCTION	1973	1974	1975	1976	1977	1978	1979	1980	1981, est.	1982, est.
<b>Total</b> .....	<b>16,800</b>	<b>17,411</b>	<b>19,039</b>	<b>20,780</b>	<b>23,984</b>	<b>26,517</b>	<b>29,040</b>	<b>31,588</b>	<b>35,523</b>	<b>40,789</b>
National defense.....	9,002	9,016	9,679	10,430	11,884	12,899	13,791	14,946	18,442	23,261
Space research and technology.....	2,824	2,702	2,764	3,130	3,365	3,481	3,969	4,587	4,929	5,539
Health.....	1,585	2,069	2,170	2,351	2,629	2,968	3,401	3,694	3,825	4,043
Energy.....	830	759	1,363	1,649	2,562	3,134	3,461	3,603	3,515	3,016
General science.....	658	749	813	858	974	1,050	1,119	1,233	1,304	1,441
Natural resources and environment.....	554	616	624	683	753	904	1,010	999	1,038	976
Transportation.....	572	694	635	631	709	768	799	887	877	883
Agriculture.....	308	313	342	383	457	501	552	585	647	725
Education, training, employment, and social services.....	280	236	239	255	230	345	354	468	339	299
Veterans benefits and services.....	74	85	95	98	107	111	123	126	138	146
International affairs.....	28	24	29	42	66	57	117	125	124	138
Commerce and housing credit.....	50	51	65	69	71	77	92	101	110	121
Community and regional development.....	78	82	93	109	101	92	127	119	121	91
Income security.....	106	71	72	48	55	67	57	47	62	55
Administration of justice.....	33	35	44	35	30	44	47	45	28	31
General government.....	7	9	12	12	13	18	23	22	26	23

**No. 1033. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, AND RESEARCH BY FIELD OF SCIENCE: 1973 TO 1981**

[In millions of dollars. For years ending June 30 except, beginning 1977, ending Sept. 30. See headnote table 1032]

ITEM	1973	1974	1975	1976	1977	1978	1979	1980, est.	1981, est.
<b>Research, total</b> .....	<b>5,646</b>	<b>6,216</b>	<b>6,841</b>	<b>7,616</b>	<b>8,604</b>	<b>9,725</b>	<b>10,673</b>	<b>11,803</b>	<b>12,908</b>
Basic.....	2,193	2,339	2,536	2,700	3,191	3,619	4,097	4,509	4,902
Applied.....	3,454	3,877	4,305	4,915	5,413	6,105	6,576	7,295	8,006
Life sciences.....	1,929	2,265	2,462	2,639	3,016	3,430	3,850	4,187	4,432
Engineering.....	1,413	1,575	1,765	2,068	2,125	2,446	2,623	2,963	3,246
Physical sciences.....	986	1,028	1,119	1,265	1,560	1,880	1,822	1,980	2,263
Environmental sciences.....	585	633	731	766	908	1,028	1,103	1,250	1,329
Social sciences.....	298	291	302	395	449	507	528	560	602
Mathematics and computer sciences.....	133	136	151	167	211	235	257	282	353
Psychology.....	108	133	138	138	150	193	202	222	248
Other sciences.....	195	154	173	178	180	206	287	359	436

**No. 1034. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: 1971 TO 1981**

[In millions of dollars except percent. For years ending June 30 except, beginning 1977, ending Sept. 30. See headnote, table 1032. See *Historical Statistics, Colonial Times to 1970*, series W 142, for total R & D expenditures]

AGENCY	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980, est.	1981, est.
<b>Total</b> .....	<b>15,543</b>	<b>16,496</b>	<b>16,800</b>	<b>17,411</b>	<b>19,039</b>	<b>20,780</b>	<b>23,984</b>	<b>26,388</b>	<b>28,978</b>	<b>31,878</b>	<b>35,492</b>
Departments:											
Agriculture.....	305	350	367	379	420	462	547	621	663	732	778
Commerce.....	144	187	191	181	215	229	245	284	309	338	373
Defense.....	7,509	8,318	8,404	8,420	9,012	9,655	10,963	11,554	12,506	13,798	16,804
Percent of total.....	48.3	50.4	50.0	48.3	47.3	46.4	45.7	43.7	43.2	43.3	46.8
Energy <sup>1</sup> .....	1,303	1,298	1,363	1,489	2,047	2,464	3,536	4,245	4,639	4,950	4,895
HHS <sup>2</sup> .....	1,476	1,751	1,638	2,290	2,397	2,584	2,823	3,207	3,505	3,777	3,908
Interior.....	192	219	244	192	303	333	315	359	406	426	425
Transportation.....	497	311	311	370	312	295	355	408	370	362	378
Agencies:											
EPA <sup>3</sup> .....	137	122	181	169	258	259	295	385	410	415	445
NASA <sup>4</sup> .....	3,258	3,157	3,061	3,002	3,064	3,447	3,703	3,875	4,411	5,114	5,398
NSF <sup>5</sup> .....	337	455	480	556	595	609	697	749	808	904	995
Other depts. and agencies.....	385	328	360	363	416	443	505	701	951	1,072	1,193

<sup>1</sup> Prior to 1974, Atomic Energy Commission; 1974-1976, Energy Research and Development Administration. <sup>2</sup> Health and Human Services beginning 1979; prior to then, Health, Education, and Welfare. <sup>3</sup> Environmental Protection Agency. <sup>4</sup> National Aeronautics and Space Administration. <sup>5</sup> National Science Foundation.

Source of tables 1032-1034: U.S. National Science Foundation, *Federal Funds for Research and Development*, annual.

# Research and Development Funds

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## No. 1035. FUNDS FOR PERFORMANCE OF INDUSTRIAL RESEARCH AND DEVELOPMENT, BY INDUSTRY, 1965 TO 1979, AND BY SOURCE OF FUNDS, 1979

[In millions of dollars. Covers basic research, applied research, and development. See also *Historical Statistics, Colonial Times to 1970*, series W 144-160.]

INDUSTRY	1965	1970	1975	1976	1977	1978	1979		
							Total	Federal Govt.	Private Industry
<b>Total</b> <sup>1</sup> .....	<b>14,185</b>	<b>18,067</b>	<b>24,187</b>	<b>26,997</b>	<b>29,928</b>	<b>33,164</b>	<b>37,806</b>	<b>12,342</b>	<b>25,264</b>
Aircraft and missiles.....	5,140	5,219	5,713	6,399	7,104	7,680	8,414	6,132	2,281
Electrical equipment and communication.....	3,200	4,220	5,105	5,636	5,937	6,591	7,584	3,224	4,363
Machinery.....	1,065	1,729	3,196	3,487	3,967	4,579	5,142	673	4,469
Motor vehicles, transportation equipment.....	1,230	1,591	2,430	2,872	3,444	3,849	4,482	3,628	3,692
Chemicals and allied products.....	1,356	1,773	2,727	3,017	3,258	3,534	4,010	379	3,631
Professional and scientific instruments.....	403	744	1,173	1,331	1,487	1,713	2,024	223	1,801
Petroleum refining and extraction.....	397	515	693	767	918	1,060	1,224	142	1,082
Primary metals.....	213	275	443	506	534	549	613	33	580
Rubber products.....	162	276	467	502	491	488	551	(NA)	(NA)
Food and kindred products.....	157	230	335	355	395	429	475	(NA)	(NA)
Paper and allied products.....	94	178	249	313	336	391	454	(NA)	(NA)
Fabricated metal products.....	145	207	324	358	394	396	445	36	409
Stone, clay, and glass products.....	112	167	233	263	287	321	348	(NA)	(NA)

<sup>1</sup> NA Not available. <sup>2</sup> Includes industries not available separately. <sup>3</sup> Excludes transportation equipment.

<sup>4</sup> Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

## No. 1036. COMPANIES PERFORMING RESEARCH AND DEVELOPMENT—SELECTED DATA, BY INDUSTRY GROUP: 1970 TO 1979

Industry code <sup>1</sup>	INDUSTRY GROUP	R AND D FUNDS (mil. dol.)			RATIO OF NET SALES TO R AND D <sup>2</sup>			R AND D SCIENTISTS/ ENGINEERS <sup>3</sup> (1,000)		
		1970	1975	1979	1970	1975	1979	1970	1975	1979
(x)	<b>Total</b> <sup>4</sup> .....	<b>18,067</b>	<b>24,187</b>	<b>37,806</b>	<b>3.7</b>	<b>3.1</b>	<b>3.0</b>	<b>384.2</b>	<b>363.3</b>	<b>423.2</b>
20	Food and kindred products.....	230	335	475	.4	.4	.4	6.3	6.8	7.4
26	Paper and allied products.....	178	249	454	.9	.9	.9	1.0	5.0	5.0
28	Chemicals and allied products.....	1,773	2,727	4,010	3.9	3.7	3.5	40.1	45.2	49.1
29	Petroleum refining.....	515	693	1,224	1.0	.7	.7	9.9	8.4	10.3
30	Rubber products.....	276	467	551	2.3	2.5	1.9	7.4	8.4	8.1
32	Stone, clay, and glass products.....	167	233	348	1.8	1.2	1.2	4.6	4.5	5.2
33	Primary metals.....	275	443	613	.8	.8	.6	6.5	6.3	8.3
34	Fabricated metal products and ordnance.....	207	324	445	1.2	1.2	1.1	5.9	7.4	7.4
35	Machinery.....	1,729	3,196	5,142	4.0	4.8	5.0	42.3	52.8	61.5
36	Electrical equipment.....	4,220	5,105	7,584	7.3	6.5	6.3	100.6	82.6	87.7
37	Transportation.....	6,810	8,143	(NA)	8.8	6.8	(NA)	117.7	95.4	121.4
38	Professional and scientific instruments.....	744	1,173	3,024	5.7	5.9	6.1	15.0	17.9	24.3

<sup>1</sup> NA Not available. <sup>2</sup> X Not applicable. <sup>3</sup> Standard Industrial Classification Code; see text, p. 776. <sup>4</sup> Excludes nonmanufacturing industries.

<sup>5</sup> As of January. <sup>6</sup> Includes breakdown not shown separately.

<sup>7</sup> Source: U.S. National Science Foundation, *Research and Development in Industry*, 1979.

## No. 1037. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES: 1965 TO 1979

[In millions of dollars, except percent. For years ending June 30 except, beginning 1977, ending Sept. 30. Minus sign (–) denotes decrease]

ITEM	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979
<b>Total Federal obligations</b> .....	<b>2,305</b>	<b>3,237</b>	<b>4,145</b>	<b>3,839</b>	<b>4,480</b>	<b>4,547</b>	<b>5,403</b>	<b>6,490</b>	<b>7,472</b>	<b>6,196</b>
Annual percent change <sup>1</sup> .....	41.9	-6.5	18.5	-7.4	16.7	1.5	18.8	20.1	15.1	-17.1
Academic science obligations.....	1,816	2,188	2,599	2,464	2,737	2,806	2,960	3,351	3,960	4,470
Percent of total.....	78.8	67.6	62.7	64.2	61.1	61.7	54.8	51.6	53.0	72.1
Research and development.....	1,095	1,447	1,853	1,871	2,085	2,239	2,423	2,789	3,364	3,846
Research and development plant.....	126	45	37	43	29	45	24	36	34	32
Other science activities.....	595	696	709	550	629	522	513	527	561	591
Nonscience activities.....	489	1,049	1,546	1,375	1,743	1,741	2,443	3,198	3,512	1,726

<sup>1</sup> For 1965, change from 1964; for 1970, change from 1969; for 1972, change from 1971.

<sup>2</sup> Source: U.S. National Science Foundation, *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions*, annual.

**NO. 1038. NOBEL PRIZE LAUREATES IN CHEMISTRY, PHYSICS, AND PHYSIOLOGY/MEDICINE—  
SELECTED COUNTRIES: 1901 TO 1980**

[Presented by location of award-winning research and by date of award]

COUNTRY	1901-1980, total	1901-1915	1916-1930	1931-1945	1946-1960	1961-1975	1976-1980	1901-1980		
								Physics	Chemistry	Physiology/ Medicine
Total	342	52	41	49	74	92	34	117	98	128
United States	124	3	3	14	38	42	24	45	24	55
United Kingdom	64	7	8	11	14	20	4	21	23	20
Germany, Fed. Rep. of	51	15	12	11	4	8	1	14	25	12
France	21	10	3	2	—	5	1	8	6	7
Soviet Union	10	2	—	—	4	3	1	7	1	2
Other countries	72	15	15	11	14	14	3	22	17	33

— Represents zero. <sup>1</sup> Includes East Germany before 1946.

Source: U.S. National Science Foundation, *Science Indicators*, 1976; and unpublished data.

**NO. 1039. NATIONAL RESEARCH AND DEVELOPMENT EXPENDITURES AS A PERCENT OF GROSS  
NATIONAL PRODUCT, BY COUNTRY: 1965 TO 1980**

YEAR	United States	France	Germany, Fed. Rep.	Japan	United Kingdom	Soviet Union	YEAR	United States	France	Germany, Fed. Rep.	Japan	United King- dom	Soviet Union
1965	2.90	2.01	1.73	1.54	(NA)	2.85	1973	2.31	1.76	2.22	1.89	(NA)	3.66
1966	2.89	2.06	1.81	1.46	2.31	2.88	1974	2.29	1.79	2.26	1.85	(NA)	3.64
1967	2.89	2.13	1.97	1.53	2.29	2.91	1975	2.27	1.80	2.38	1.94	2.05	3.69
1968	2.82	2.08	1.97	1.61	2.25	(NA)	1976	2.27	1.77	2.29	1.93	(NA)	3.55
1969	2.72	1.94	2.05	1.65	2.22	3.03	1977	2.24	1.76	2.31	1.92	(NA)	3.46
1970	2.83	1.91	2.18	1.79	(NA)	3.23	1978	2.23	1.76	2.31	1.93	2.13	3.47
1971	2.47	1.90	2.38	1.84	(NA)	3.29	1979	2.26	(NA)	2.34	1.94	(NA)	3.44
1972	2.40	1.86	2.33	1.85	2.05	3.58	1980	2.33	(NA)	2.32	(NA)	(NA)	3.47

NA Not available.

Source: U.S. National Science Foundation, *Science Indicators*, 1976; and unpublished data.

**NO. 1040. RESEARCH AND DEVELOPMENT EXPENDITURES IN SCIENCE AND ENGINEERING AT  
UNIVERSITIES AND COLLEGES: 1970 TO 1979**

[In millions of dollars. Estimates for nonrespondents account for less than 7 percent of the total]

CHARACTERISTIC	1970	1975	1978	1979	CHARACTERISTIC	1970	1975	1978	1979
Total	2,335	3,409	4,614	5,183	Field of science:				
In 1972 dollars <sup>1</sup>	2,584	2,771	3,076	3,183	Life sciences .....	1,194	1,801	2,635	2,815
Basic research	1,796	2,410	(NA)	3,552	Engineering .....	319	381	601	715
Applied research and development	538	999	(NA)	1,631	Physical sciences .....	307	350	495	580
Source of funds:					Environmental sciences .....	125	255	378	429
All Governments	1,867	2,620	3,471	3,899	Social sciences and other .....	257	355	391	419
Institutions' own funds	243	417	615	716	Mathematics and computer sciences .....	72	85	125	145
Industry	61	113	170	194	Psychology .....	59	80	89	100
Other	185	259	359	374					

NA Not available. <sup>1</sup> Based on GNP implicit price deflator, see text, p. 417.

Source: U.S. National Science Foundation, *Survey of Scientific and Engineering Expenditures at Universities and Colleges*, annual.

**NO. 1041. SCIENTISTS AND ENGINEERS EMPLOYED IN RESEARCH AND DEVELOPMENT: 1961 TO 1981**

[In thousands of full-time equivalent employees. Yearly averages for industry sector only. Excludes those employed by State and local government agencies, except as noted. DOD=Dept. of Defense]

SECTOR	1961	1965	1970	1975	1976	1977	1978	1979	1980 <sup>1</sup>	1981 <sup>1</sup>
Total	425.7	494.5	546.6	533.1	546.3	570.4	594.3	620.2	643.5	670.0
Industry (excl. social scientists) <sup>2</sup>	312.0	349.4	375.6	363.8	373.6	393.2	412.4	432.8	453.4	476.8
Universities and colleges, total	42.4	53.4	88.5	70.2	71.8	74.5	76.5	78.2	79.9	82.2
Scientists and engineers	33.6	40.4	50.3	51.6	52.9	54.4	55.9	56.5	57.1	58.3
Graduate students	8.8	13.0	18.2	18.6	18.9	20.1	20.6	21.7	22.8	23.9
Federal Government (incl. DOD)	51.1	61.8	69.8	63.4	64.0	64.7	66.3	67.0	67.6	68.0
University-associated federally funded R & D centers	9.1	11.1	11.5	12.7	13.4	14.0	14.1	14.7	15.2	15.6
Other nonprofit institutions <sup>2</sup>	11.1	19.9	21.2	23.0	23.5	24.0	25.0	27.5	27.5	27.5

<sup>1</sup> Estimated. <sup>2</sup> Includes professional R & D personnel employed at FFRDCs administered by industry and other nonprofit institutions.

<sup>2</sup> Includes estimate for R&D scientists and engineers employed in State-affiliated institutions.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, 1981.

# Scientists and Engineers

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## No. 1042. SCIENTISTS AND ENGINEERS, BY FIELD, EMPLOYMENT STATUS, AND SEX: 1974 TO 1978

[In thousands, except percent. Represents the total science and engineering population in the United States]

FIELD	1974			1976			1978		
	Total		In labor force	Total		In labor force	Total		In labor force
	Number	Percent female	Number	Number	Percent female	Number	Number	Percent female	Number
<b>Total, all fields.....</b>									
Engineers, total.....	2,482	8.7	2,288	2,706	9.2	2,452	2,741	9.7	2,508
Scientists, total.....	1,292	5.5	1,229	1,375	6	1,268	1,396	1.6	1,285
Life scientists.....	1,190	17.7	1,059	1,390	18.2	1,184	1,345	18.2	1,223
Physical scientists.....	256	19.5	243	314	19.4	286	328	22.0	298
Computer specialists.....	248	8.4	207	281	9.4	237	255	8.9	217
Social scientists.....	170	20.4	167	180	20.2	173	198	18.0	235
Psychologists.....	217	24.4	192	237	24.5	211	205	20.8	189
Mathematical scientists.....	109	21.1	94	123	25.0	106	132	27.3	123
Environmental scientists.....	101	19.8	84	110	20.8	92	108	16.4	90
	79	6.7	71	86	7.5	77	81	10.6	74

<sup>1</sup> Includes those not employed or not seeking employment, such as retirees.

## No. 1043. CHARACTERISTICS OF SCIENTISTS AND ENGINEERS: 1978

[Percent distribution, except as indicated. Represents the total science and engineering population in the United States]

CHARACTERISTIC	1978								
	Total	Engineers	Physical scientists	Mathematical scientists	Computer specialists	Environmental scientists	Life scientists	Psychologists	Social scientists
<b>Total (1,000).....</b>									
Male.....	2,741	1,396	255	108	238	81	328	132	205
Female.....	90.3	98.4	91.0	81.6	82.0	89.4	78.0	72.7	79.4
Highest degree:									
Doctorate.....	9.7	1.6	9.0	18.4	18.0	10.6	22.0	27.3	20.6
Master's.....	11.6	3.5	25.6	15.0	2.6	17.6	25.2	28.6	29.5
Bachelor's.....	28.0	19.7	23.8	63.4	26.4	30.1	34.7	60.7	40.9
Other.....	58.0	72.3	50.4	21.4	71.0	52.2	39.8	10.7	35.5
Type of employer:									
Business, industry.....	2.4	4.6	.1	.2	.1	.1	.3	.1	.1
Educational institutions.....	61.8	77.7	54.8	38.7	74.0	55.9	29.7	26.2	32.7
Nonprofit organizations.....	15.4	8.8	26.1	39.7	7.5	17.8	32.4	45.8	33.0
Federal Government.....	3.2	1.4	3.7	3.5	4.7	1.5	6.4	8.4	5.5
Military.....	8.3	7.1	8.5	10.6	6.2	14.4	14.4	3.3	9.1
Other government.....	.8	.9	.3	.9	1.2	.1	.6	1.8	.3
Other government.....	8.3	6.9	4.5	5.4	4.5	9.3	12.2	12.2	18.2
Other.....	2.2	2.1	2.1	1.1	1.8	1.0	4.2	2.2	1.2

Source of tables 1042 and 1043: U.S. National Science Foundation, *U.S. Scientists and Engineers: 1978* (NSF 80-304).

## No. 1044. RESEARCH AND DEVELOPMENT SCIENTISTS AND ENGINEERS—AVERAGE FULL-TIME-EQUIVALENT AND COST, BY INDUSTRY AND SOURCE OF SUPPORT: 1970 TO 1979

[In thousands. Data are estimates; for 1970 on man-years basis; thereafter, on average full-time-equivalent (FTE) basis. See *Historical Statistics, Colonial Times to 1970*, series W 167, for total cost per scientist or engineer]

INDUSTRY	1970			1975			1978			1979			
	Total	Pri- vate Indus- try	Fed- eral Govt.										
<b>Average FTE of scientists and engineers.....</b>													
Chemicals <sup>1</sup> .....	375.6	234.9	140.7	363.8	260.6	103.2	413.6	289.0	124.6	437.6	306.8	130.8	
Inorganic.....	41.4	38.0	3.4	44.8	42.2	2.6	48.5	45.9	2.6	50.4	47.1	3.3	
Organic.....	42.5	35.4	7.1	54.2	47.0	7.2	59.8	51.3	8.5	82.8	54.5	9.2	
Machinery.....	96.2	49.9	46.3	81.4	48.2	33.2	86.7	50.1	36.6	92.4	55.7	36.7	
Electrical equipment.....	26.8	21.5	5.3	27.5	24.0	3.5	33.8	29.5	4.3	36.0	32.0	4.0	
Motor vehicle <sup>2</sup> .....	85.2	20.9	64.3	67.2	21.1	46.1	84.2	26.6	57.6	87.4	30.3	57.1	
Aircraft and missiles.....	83.5	69.2	14.3	88.7	78.1	10.6	100.6	85.5	15.1	108.6	87.1	21.5	
Other industries.....													
Cost per scientist or engineer (do.).....	48.1	22.9	56.2	66.5	58.2	82.2	78.8	76.7	90.0	84.0	83.1	95.2	
Chemicals <sup>1</sup> .....	42.8	42.0	53.7	60.9	56.0	87.0	73.9	70.1	(NA)	79.5	77.6	114.8	
Machinery.....	40.7	40.1	39.2	58.9	59.8	73.8	74.9	75.8	69.6	81.9	81.9	81.7	
Electrical equipment.....	43.9	40.7	48.1	62.7	54.3	65.6	76.3	74.7	78.4	82.0	79.2	88.1	
Motor vehicle <sup>2</sup> .....	59.6	63.2	51.7	88.4	86.0	104.3	117.4	113.5	114.7	127.3	117.2	(NA)	
Aircraft and missiles.....	61.3	54.3	65.0	85.1	56.1	96.2	91.3	70.6	100.9	96.3	75.8	107.8	
Other Industries.....	42.0	39.4	55.0	55.3	52.4	75.5	69.9	(NA)	74.6	(NA)	(NA)	(NA)	

NA Not available. <sup>1</sup> Includes allied products. <sup>2</sup> And other transport equipment.

Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

**NO. 1045. EMPLOYMENT OF SCIENTISTS, ENGINEERS, AND TECHNICIANS IN PRIVATE INDUSTRY, BY OCCUPATION AND MAJOR INDUSTRIAL SECTOR: 1980**

[In thousands. As of August]

ITEM	Total	Mining <sup>1</sup>	Construction	Manufacturing	Transportation	Communications	Public utilities	Trade	Finance, insurance, real estate	Services
<b>Scientists and engineers</b>	<b>1,281.0</b>	<b>50.2</b>	<b>54.1</b>	<b>694.7</b>	<b>7.9</b>	<b>42.2</b>	<b>37.7</b>	<b>71.7</b>	<b>38.7</b>	<b>283.8</b>
Scientists	320.4	23.3	1.4	123.3	2.7	4.5	5.3	28.0	32.1	99.9
Physical scientists	107.1	19.5	(2)	61.8	.4	(2)	1.5	1.1	(2)	22.7
Life scientists	23.3	(2)	(2)	13.3	(2)	(2)	(2)	.5	(2)	9.5
Mathematical scientists	29.6	7	(2)	8.8	.1	(2)	(2)	.7	8.4	10.4
Social scientists	13.5	(2)	(2)	2.8	(2)	(2)	(2)	.4	(2)	8.7
Psychologists	2.8	(2)	(2)	(2)	(2)	(2)	(2)	.4	(2)	2.8
Computer specialists	144.2	3.1	1.4	36.5	2.2	4.0	3.7	25.3	22.2	45.9
<b>Engineers</b> <sup>2</sup>	<b>960.6</b>	<b>27.0</b>	<b>52.7</b>	<b>571.4</b>	<b>5.2</b>	<b>37.7</b>	<b>32.5</b>	<b>43.7</b>	<b>6.6</b>	<b>183.9</b>
Civil engineers	100.0	1.1	19.6	4.8	(2)	(2)	(2)	2.4	16.7	(2)
Electrical/electronics eng.	286.5	.5	8.2	170.6	.6	26.7	15.5	18.1	(2)	46.4
Mechanical engineers	173.7	1.2	13.9	113.6	.8	(2)	5.4	2.0	(2)	36.0
<b>Technicians</b>	<b>1,233.3</b>	<b>26.2</b>	<b>53.9</b>	<b>553.5</b>	<b>16.2</b>	<b>32.2</b>	<b>44.4</b>	<b>128.1</b>	<b>30.7</b>	<b>348.2</b>
Engineering technicians <sup>2</sup>	854.3	18.1	49.9	374.7	4.8	26.7	34.7	93.9	2.9	248.8
Drafters	282.1	6.7	24.8	111.9	.2	4.8	7.0	5.5	1.7	119.5
Electrical/electronic tech.	308.4	1.5	18.2	123.8	2.0	16.8	11.4	86.9	(2)	47.8
Science technicians	99.9	3.6	(2)	70.7	.4	(2)	1.4	1.7	(2)	22.2
Computer programmers	179.3	2.1	1.4	55.4	5.0	4.2	3.7	18.6	27.8	61.2
All other technicians	99.7	2.4	2.7	52.8	6.2	1.1	4.6	13.9	(2)	16.0

Z Fewer than 50.

<sup>1</sup> Includes oil and gas extraction. <sup>2</sup> Includes engineers and technicians not shown separately.

Source: U.S. National Science Foundation and U.S. Bureau of Labor Statistics, unpublished data.

**NO. 1046. SCIENTISTS AND ENGINEERS—EMPLOYMENT IN INSTITUTIONS OF HIGHER EDUCATION, BY FIELD: 1965 TO 1980**

[In thousands. As of January. Includes full-time and part-time personnel. Excludes graduate students who receive stipends for part-time services as scientists or engineers. R and D=research and development]

FIELD	1965	1971	1975	1980	FIELD		1965	1971	1975	1980
					Math, and computer scientists ...	Life scientists ...				
<b>Total</b>	<b>189.9</b>	<b>269.2</b>	<b>291.4</b>	<b>339.6</b>	75.8	110.3	132.5	134.1	136.9	136.9
Universities, colleges	178.9	257.9	278.9	324.8	Agricultural	13.5	18.0	14.3	15.9	15.9
Teaching staff	122.0	186.0	210.0	(NA)	Biological	24.3	31.8	38.2	44.9	44.9
Engineers <sup>1</sup>	21.7	27.1	27.9	33.8	Medical	38.0	60.4	61.0	67.5	67.5
Civil	3.1	4.1	4.9	5.5	Psychologists	9.4	16.8	21.6	23.2	23.2
Electrical	5.5	6.9	6.8	8.2	Social scientists	32.9	43.2	46.7	54.3	54.3
Mechanical	4.1	5.4	5.3	6.1	Federally funded R and D centers	11.0	11.3	12.5	14.8	14.8
Physical and environmental science <sup>1</sup>	25.5	35.9	38.7	43.5	Engineers	5.0	5.1	5.9	6.5	6.5
Chemists	10.7	14.7	16.1	17.7	Scientists	6.0	6.2	6.6	8.3	8.3
Earth scientists	4.0	6.5	6.0	6.6						
Physicists	9.1	12.2	12.3	13.1						

NA Not available.

<sup>1</sup> Includes other breakdown not shown separately.

Source: U.S. National Science Foundation, *Academic Science Scientists and Engineers*, annual.

**NO. 1047. PROFESSIONAL SCIENTIFIC, ENGINEERING, AND TECHNICAL PERSONNEL IN THE FEDERAL GOVERNMENT, BY OCCUPATIONAL GROUP: 1966 TO 1979**

[In thousands, except percent. 1966 data as of December, all other years as of October]

OCCUPATIONAL GROUP	1966	1970	1975	1977	1978	1979	PERCENT FEMALE					
							1966	1970	1975	1977	1978	1979
<b>Total</b>	<b>192.7</b>	<b>206.2</b>	<b>221.9</b>	<b>229.2</b>	<b>236.7</b>	<b>174.7</b>	<b>16.6</b>	<b>16.4</b>	<b>19.7</b>	<b>20.8</b>	<b>21.5</b>	<b>16.4</b>
Scientific personnel	71.5	77.2	77.3	81.4	84.8	86.0	7.8	8.0	8.8	9.8	10.7	11.6
Physical sciences	27.3	29.8	27.1	27.1	27.5	27.6	6.4	6.4	7.3	7.9	8.4	
Mathematics and statistics	7.3	8.6	10.0	10.6	11.2	11.4	20.0	17.4	15.9	16.7	17.6	18.5
Life sciences	26.0	26.9	26.4	28.3	29.3	29.5	3.7	4.1	5.1	6.1	6.6	7.5
Social sciences	5.8	6.6	8.0	9.1	9.4	10.3	14.5	16.2	17.6	19.9	21.8	23.8
Geography and cartography	3.2	3.3	2.9	3.3	3.6	4.1	8.6	8.5	7.9	9.2	9.8	11.9
Psychology	1.9	2.2	2.9	3.0	3.2	3.2	14.6	13.7	14.6	15.1	16.0	16.7
Engineering personnel	76.8	83.0	88.6	87.8	89.2	88.8	.5	.5	.7	.9	1.1	1.3
Health professional personnel	44.3	46.0	58.0	59.9	62.8	(NA)	58.8	59.2	62.7	65.1	65.0	(NA)
Health officers	13.1	13.0	13.4	11.7	12.1	(NA)	4.7	5.5	7.8	9.8	10.6	(NA)

NA Not available.

<sup>1</sup> Excludes health professional personnel.

<sup>2</sup> Includes community planning.

Source: U.S. National Science Foundation. Compiled from data supplied by the U.S. Office of Personnel Management.

# Graduate Students—Degrees Conferred

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## NO. 1048. GRADUATE SCIENCE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS, BY FIELD AND LEVEL OF STUDY: 1975 TO 1979

[In thousands. As of fall. Includes outlying areas]

FIELD OF SCIENCE	TOTAL STUDENTS, FIRST-YEAR			TOTAL STUDENTS, BEYOND FIRST-YEAR			FULL-TIME STUDENTS, FIRST- YEAR			FULL-TIME STUDENTS, BEYOND FIRST-YEAR		
	1975	1978	1979	1975	1978	1979	1975	1978	1979	1975	1978	1979
Total	112.9	106.1	103.8	182.7	204.3	217.9	79.5	74.5	73.3	131.4	142.4	150.8
Engineering	29.3	25.1	24.2	35.8	40.5	44.5	16.5	14.6	14.6	20.6	22.5	24.6
Physical sciences	7.0	6.8	6.5	17.8	18.3	18.8	6.0	5.8	5.5	15.4	16.9	16.4
Environmental sciences	3.7	3.6	3.6	7.0	6.3	8.7	3.1	3.1	3.1	5.6	6.6	6.6
Mathematical/computer sciences	8.6	7.7	7.6	12.5	13.4	14.9	5.3	4.7	4.7	8.5	8.7	9.3
Life sciences	28.4	29.5	28.5	44.7	55.5	58.5	23.0	22.6	21.9	36.2	42.3	44.6
Psychology	7.8	7.1	6.9	19.3	20.8	21.1	5.8	5.5	5.5	14.0	15.1	15.3
Social sciences	28.1	26.4	26.7	45.6	47.6	51.5	19.6	18.2	17.9	31.1	31.3	33.8

Source: U.S. National Science Foundation, *Survey of Graduate Science Students and Postdoctorates*, annual.

## NO. 1049. DEGREES CONFERRED, BY RECIPIENTS' CHARACTERISTICS, 1970 TO 1980, AND BY SELECTED FIELDS, 1980

CHARACTERISTIC	ALL FIELDS <sup>1</sup>					1980					
	1970	1975	1978	1979	Total <sup>1</sup>	Physical sciences <sup>2</sup>	Engineering	Biological sciences <sup>3</sup>	Psychology	Social sciences <sup>4</sup>	
Doctorate conferred	29,475	32,913	30,850	31,200	30,982	4,114	2,479	3,411	3,098	2,467	
Percent with master's degree	78.6	81.3	81.4	81.2	80.9	59.7	90.4	51.9	79.8	84.6	
Percent distribution	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Male	86.5	78.1	73.1	71.4	69.7	87.8	96.4	72.0	57.7	73.6	
Female	13.5	21.9	26.9	28.6	30.3	12.2	3.6	28.0	42.3	26.4	
White <sup>5</sup>	(NA)	79.8	83.4	83.3	84.6	83.7	73.5	86.6	87.9	84.8	
Black and other <sup>5</sup>	(NA)	12.1	10.7	10.9	10.5	9.3	21.1	7.6	8.0	9.9	
Not reported <sup>5</sup>	(NA)	8.1	5.9	5.8	4.9	7.0	5.5	5.9	4.2	5.3	
U.S. citizens	84.2	82.1	81.6	81.3	81.0	74.6	50.6	86.3	91.6	77.1	
Foreign citizens	14.0	15.9	15.4	15.7	15.0	22.9	46.3	11.5	3.9	20.0	
Citizenship unknown	1.6	2.0	2.9	3.0	3.1	2.6	3.1	2.2	4.5	2.9	
Median age at award <sup>6</sup> (yr.)	30.7	31.5	31.7	31.9	32.2	29.2	30.3	29.4	30.6	32.4	
Median total time, <sup>6</sup> baccalaureate to doctorate (yr.)	7.9	8.6	8.9	9.0	9.3	6.8	7.6	7.1	7.9	9.4	
Registered time (yr.)	5.6	5.9	6.1	6.2	6.3	5.8	5.6	5.9	6.1	6.7	
Master's conferred (1,000)	209	294	313	302	299	12	17	7	8	8	
Bachelor's conferred <sup>7</sup> (1,000)	833	988	997	1,000	1,010	46	60	50	43	72	

NA Not available. <sup>1</sup> Includes other fields, not shown separately. <sup>2</sup> Astronomy, physics, chemistry, earth sciences, and mathematics. <sup>3</sup> Biochemistry, botany, microbiology, physiology, zoology, and related fields. <sup>4</sup> Anthropology, sociology, economics, political science, public administration, and international relations. <sup>5</sup> 1976-1980 data on race limited to U.S. citizens and non-U.S. citizens with permanent visas (26,529 in 1978, 26,683 in 1979, and 26,394 in 1980). <sup>6</sup> For definition of median, see Guide to Tabular Presentation. <sup>7</sup> Includes first professional degrees.

Source: U.S. National Science Foundation. Data from National Research Council, *Summary Report, 1979: Doctorate Recipients from United States Universities* and National Center for Education Statistics, *Earned Degrees Conferred*, annual.

## NO. 1050. SCIENCE DOCTORATES CONFERRED: 1965 TO 1980

[Doctorates conferred, years ending June 30; enrollment as of fall term. See also *Historical Statistics, Colonial Times to 1970*, series H 767-771, 774, and 776-780.]

FIELD OF SCIENCE	1965	1970	1974	1975	1976	1977	1978	1979	1980
Science doctorates conferred	10,477	17,731	18,316	18,352	17,872	17,373	17,034	17,230	17,195
Life sciences	2,539	4,163	4,303	4,402	4,350	4,266	4,361	4,495	4,710
Biological sciences	1,963	3,360	3,473	3,498	3,562	3,484	3,508	3,640	3,798
Agricultural sciences <sup>1</sup>	576	803	830	904	788	782	853	855	912
Physical sciences	2,865	4,400	3,800	3,749	3,572	3,410	3,234	3,321	3,151
Chemistry	1,444	2,234	1,792	1,762	1,623	1,570	1,545	1,567	1,538
Physics and astronomy	1,046	1,655	1,384	1,283	1,235	1,149	1,068	1,108	985
Earth, environmental, and marine sciences	375	511	674	694	714	891	823	646	628
Social sciences	1,381	2,626	3,286	3,344	3,278	3,137	3,008	2,882	2,794
Psychology	954	1,888	2,587	2,749	2,878	2,960	3,049	3,081	3,098
Engineering	2,073	3,432	3,144	2,958	2,791	2,841	2,423	2,494	2,479
Mathematics	685	1,222	1,196	1,149	1,003	959	959	977	963

<sup>1</sup> Excludes agricultural economics.

Source: U.S. National Science Foundation. Data from National Research Council, Doctorate Record File.

**NO. 1051. DOCTORAL SCIENTISTS AND ENGINEERS—CHARACTERISTICS OF THE TOTAL POPULATION: 1973 TO 1979**  
 [In thousands]

CHARACTERISTIC	1973	1975	1977	1979		CHARACTERISTIC	1973	1975	1977	1979	
				Number	Em-ployed					Number	Em-ployed
Total	239	270	303	332	314	Race:					
Field:						White	217	242	270	293	277
Physical scientists	53.0	58.4	62.1	64.3	60.2	Black	2.2	2.6	2.8	3.7	3.4
Mathematical scientists	13.0	14.2	15.4	16.1	15.3	Asian	9.4	12.9	15.7	21.7	21.0
Computer specialists	2.7	3.5	5.8	6.8	6.7	Others and no report	10.4	13.0	14.4	13.4	12.4
Environmental scientists						Employment status:					
Engineers	10.9	12.5	13.5	15.1	14.6	Full-time employed	208	241	267	293	293
Life scientists	37.3	43.4	46.5	51.5	50.2	Part-time employed	6.3	7.3	7.5	10.7	10.7
Psychologists	27.2	31.4	35.7	40.3	38.0	Postdoctorates	5.7	8.2	9.8	10.2	10.2
Social scientists	31.2	36.8	45.8	52.0	48.6	Unemployed/seeking	2.5	2.5	3.3	2.9	(X)
Sex:						Not employed/not seeking	1.5	2.4	2.8	3.6	(X)
Men	218	245	272	294	280	Retired/not employed	7.0	8.7	9.7	10.3	(X)
Women	20.8	25.6	31.7	37.9	33.3	Other	2.3	.4	.5	.8	(X)
						No report	5.3	.5	2.6	.9	(X)

X Not applicable.

Source: U.S. National Science Foundation, *Science and Engineering Personnel: A National Overview*, June 1980 (NSF 80-316).

**NO. 1052. DOCTORAL SCIENTISTS AND ENGINEERS, BY SELECTED STATES: 1979**  
 [Includes doctorate holders receiving their degrees between 1936 and June 1978. Selected States represent those with more than 4 thousand scientists and engineers]

STATE	Total	Natural scientists	Social scientists	Engineers	STATE	Total	Natural scientists	Social scientists	Engineers
Total	332,280	188,536	92,212	51,532	Mich.	10,698	6,264	2,966	1,488
Calif.	39,700	20,251	11,289	8,160	Minn.	6,187	4,138	1,539	510
Colo.	6,321	4,038	1,371	912	Mo.	5,401	3,172	1,467	762
Conn.	5,971	3,290	2,019	662	N.J.	13,574	7,986	2,477	3,101
D.C.	11,616	6,387	4,895	1,334	N.Y.	32,716	17,365	10,811	4,540
Fla.	7,508	4,133	2,427	948	N.C.	7,371	4,773	1,753	845
Ga.	4,956	3,401	1,081	474	Ohio	13,384	7,535	3,683	2,168
Ill.	14,863	8,023	4,788	2,052	Pa.	15,868	8,581	4,433	2,864
Ind.	5,790	3,382	1,806	802	Tenn.	5,615	3,341	1,371	903
La.	4,054	2,508	891	655	Tex.	16,439	9,705	3,427	3,307
Md.	12,835	8,828	2,540	1,467	Va.	9,516	5,324	2,616	1,576
Mass.	14,078	7,941	4,008	2,129	Wash.	6,913	3,289	2,319	1,305
					Wis.	5,980	3,401	1,657	912
					Other areas	54,916	32,470	14,758	7,688

Source: U.S. National Science Foundation, *1979 Characteristics of Doctoral Scientists and Engineers in the United States*. Data derived from the Doctoral Roster of Scientists and Engineers.

**NO. 1053. FEDERAL SPACE PROGRAM—OUTLAYS, BY AGENCY: 1960 TO 1981**

[In millions of dollars, except percent. Through 1976, for years ending June 30, thereafter, years ending Sept. 30.  
 NASA = National Aeronautics and Space Administration]

YEAR	Total <sup>1</sup>	NASA <sup>2</sup>		Dept. of Defense	Dept. of Energy <sup>3</sup>	YEAR	Total <sup>1</sup>	NASA <sup>2</sup>		Dept. of Defense	Dept. of Energy <sup>3</sup>
		Total	Percent of total					Total	Percent of total		
1960	885	329	37.0	518	41	1971	4,999	3,171	63.4	1,693	97
1961	1,468	604	47.3	710	64	1972	4,772	3,195	67.0	1,470	60
1962	2,387	1,226	51.4	1,029	130	1973	4,719	3,069	65.0	1,557	51
1963	4,079	2,517	61.7	1,368	181	1974	4,854	2,960	61.0	1,777	39
1964	5,900	4,101	69.5	1,564	220	1975	4,891	2,953	60.4	1,829	34
1965	6,856	5,006	73.0	1,592	232	1976	5,314	3,336	62.8	1,864	26
1966	7,689	5,828	75.8	1,637	188	1977	5,983	3,440	57.5	2,412	22
1967	7,208	5,307	73.6	1,673	184	1978	8,509	3,623	55.7	2,729	34
1968	6,647	4,574	68.8	1,690	146	1979	7,446	4,062	54.5	3,250	38
1969	6,331	4,083	64.5	2,095	117	1980, est.	8,872	4,697	52.9	4,003	54
1970	5,453	3,665	65.4	1,756	103	1981, est.	10,073	4,989	49.5	4,911	51

<sup>1</sup> Includes agencies not shown separately. <sup>2</sup> Excludes aircraft technology. <sup>3</sup> See footnote 1, table 1034.

Source: U.S. National Aeronautics and Space Administration, *Aeronautics and Space Report of the President*, annual. Data from U.S. Office of Management and Budget.

## Space Program

NO. 1054. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION—OUTLAYS FOR RESEARCH AND DEVELOPMENT: 1965 TO 1981

[In millions of dollars, except percent. For years ending June 30 except, beginning 1977, ending Sept. 30. Performance includes research and development, and research and program management. Space science includes technology. Minus sign (-) denotes decrease]

YEAR	Total outlays	Percent change	PERFORMANCE				FACILITIES			
			Total	Space flight	Space science, applications	Air transport and other	Total	Space flight	Space science, applications	Air transport and other
1965.....	5,093	+22.1	4,562	3,138	1,126	298	531	401	78	52
1966.....	5,933	16.5	5,361	3,819	1,120	422	572	391	63	70
1967.....	5,426	-8.5	5,137	3,477	1,160	500	289	172	47	29
1968.....	4,726	-12.9	4,598	3,028	1,061	510	127	69	29	17
1969.....	4,252	-10.0	4,187	2,754	893	540	65	27	21	19
1970.....	3,753	-11.7	3,699	2,195	983	541	54	14	21	19
1971.....	3,882	-9.8	3,338	1,877	926	535	44	8	6	30
1972.....	3,423	1.2	3,373	1,727	1,111	535	50	13	7	28
1973.....	3,316	-3.1	3,271	1,532	1,220	519	45	5	11	38
1974.....	3,256	-1.8	3,181	1,448	1,156	577	75	25	12	42
1975.....	3,266	.3	3,181	1,500	1,076	606	85	35	9	43
1976.....	3,670	12.4	3,549	1,934	969	646	121	66	11	45
1977.....	3,945	7.5	3,840	2,195	1,002	643	105	56	4	60
1978.....	3,984	1.0	3,860	2,204	964	692	124	56	8	83
1979.....	4,187	5.0	4,054	2,175	1,144	735	133	41	9	97
1980.....	4,850	15.8	4,710	2,556	1,341	813	140	38	5	121
1981, est. <sup>2</sup>	5,270	8.6	5,114	2,989	1,282	843	156	32	3	

<sup>1</sup> Change from 1984. <sup>2</sup> Based on March revised budget estimates, see table 41B, footnote 7 for explanation.  
 Source: U.S. Office of Management and Budget, *The Budget of the United States Government*, annual; and unpublished data.

**NO. 1055 SPACE VEHICLE SYSTEMS—SALES AND BACKLOG ORDERS: 1965 TO 1980**

NO. 1055. SPACE VEHICLE SYSTEMS—SALES AND BACKLOG ORDERS, 1961  
[In millions of dollars. Backlog orders as of Dec. 31. Based on data from major companies engaged in manufacture of aerospace products. Excludes engines and propulsion units]

(in millions of dollars. Backlog orders as of Dec. 31. Based on data from Defense Department contracts for aircraft products. Excludes engines and propulsion units)														
YEAR	NET SALES			BACKLOG ORDERS			YEAR	NET SALES			BACKLOG ORDERS			
	Total	Military	Non-military	Total	Military	Non-military		Total	Military	Non-military	Total	Military	Non-military	
1965.....	2,449	602		1,847	2,203	503	1,700	1975.....	2,119	1,096	1,023	1,304	1,019	285
1970.....	1,956	1,025		931	1,184	786	398	1976.....	2,002	904	1,098	1,234	902	332
1971.....	1,725	860		865	916	603	313	1977.....	1,870	814	1,056	1,589	1,263	326
1972.....	1,656	905		751	959	646	313	1978.....	2,324	1,008	1,318	2,188	1,693	485
1973.....	1,562	802		660	1,177	923	254	1979.....	2,539	1,105	1,434	1,448	909	539
1974.....	1,751	944		807	1,492	1,191	361	1980, prel.	3,254	1,513	1,741	1,870	1,025	845

Source: U.S. Bureau of the Census, *Current Industrial Reports*, NIG-3, 1951.

#### SATELLITE PAYLOAD LAUNCHINGS: 1957 TO 1981

NO. 1056. SPACE PAYLOAD LAUNCHING  
Launch of Earth orbit or Earth escape by payload

YEAR	UNITED STATES				Soviet Union successful launches	YEAR	UNITED STATES				Soviet Union successful launchings			
	Earth orbit		Earth escape				Earth orbit		Earth escape					
	Success	Failure	Success	Failure			Success	Failure	Success	Failure				
Total	941	129	79	15	1,707	1969	58	1	8	1	80			
1957	-	1	-	-	2	1970	36	1	3	-	103			
1958	5	8	-	-	1	1971	45	2	8	1	114			
1959	9	9	1	2	3	1972	33	2	8	-	109			
1960	16	12	1	2	3	1973	23	2	3	-	130			
1961	35	12	-	2	8	1974	27	2	1	-	114			
1962	55	12	4	1	26	1975	30	4	4	-	140			
1963	62	11	-	-	20	1976	33	-	1	-	141			
1964	69	8	4	-	38	1977	27	2	2	-	125			
1965	93	7	4	1	76	1978	34	2	7	-	142			
1966	94	12	7	1	52	1979	18	-	-	-	126			
1967	78	4	10	-	75	1980	16	4	-	-	132			
1968	61	15	3	-	85	1981, Jan.-Apr., prel.	5	-	-	-	46			

1968..... 61 100% in Earth orbit and included in Earth orbit success totals

- Represents zero. Attained Earth orbit and included in Earth orbit. Source: Library of Congress, Science Policy Research Division, United States and Soviet Progress in Space, January Through 1980 and A Forward Look, January 1981; and unpublished data.